

分 冊

Separate Volume

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分冊番号 6 / 9

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PRIORITY DOCUMENT

340 345 350
Ala Glu Ser Leu Gln Ala Ala Trp Tyr Pro Arg Thr Ser Leu Pro Thr
355 360 365
Pro Leu Arg Ala His Asp Ile Leu His Leu Val Glu Leu Ala Ala Gln
370 375 380
Tyr Arg Gln Gln Ala Arg His Pro Leu Ile Leu Pro Gln Glu Leu Pro
385 390 395 400
Cys Asp Leu Val Cys Gln Arg Leu Val Ala Thr Phe Thr Ser Ala Gln
405 410 415
Thr Val Trp Val Leu Val Gly Thr Val Gly Met Pro His Leu Pro Val
420 425 430
Thr Ala Cys Gly Leu Asp Pro Val Glu Gln Arg Gly Gly Met Lys Met
435 440 445
Ala Val Leu Arg Leu Leu Gln Glu Cys Leu Thr Leu His His Leu Val
450 455 460
Val Glu Ile Lys Gly Leu Leu Gly Leu Gln His Leu Gly Arg Asp His
465 470 475 480
Ser Asp Gly Ile Cys Leu Asn Val Leu Val Thr Val Ala Phe Arg Ser
485 490 495
Pro Gly Ile Gln Asp Glu Pro Pro Lys Val Arg Gly Glu Asn Phe Ser
500 505 510
Trp Trp Lys Val Met Glu Glu Asp Leu Gln Ser Gln Leu Leu Gln Arg
515 520 525
Leu Gln Gly Ser Ser Val Val Pro Val Asn Arg
530 535

<210> 2244

<211> 434

<212> PRT

<213> Homo sapiens

<400> 2244

Met Glu Ala Gly Ala Gly Ala Gly Ala Gly Ala Ala Gly Trp Ser Cys
1 5 10 15
Pro Gly Pro Gly Pro Thr Val Thr Thr Leu Gly Ser Tyr Glu Ala Ser
20 25 30
Glu Gly Cys Glu Arg Lys Lys Gly Gln Arg Trp Gly Ser Leu Glu Arg
35 40 45
Arg Gly Met Gln Ala Met Glu Gly Glu Val Leu Leu Pro Ala Leu Tyr
50 55 60
Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Val Glu Glu Glu
65 70 75 80
Glu Glu Gln Val Gln Lys Gly Gly Ser Val Gly Ser Leu Ser Val Asn
85 90 95
Lys His Arg Gly Leu Ser Leu Thr Glu Thr Glu Leu Glu Glu Leu Arg
100 105 110
Ala Gln Val Leu Gln Leu Val Ala Glu Leu Glu Glu Thr Arg Glu Leu
115 120 125
Ala Gly Gln His Glu Asp Asp Ser Leu Glu Leu Gln Gly Leu Leu Glu
130 135 140
Asp Glu Arg Leu Ala Ser Ala Gln Gln Ala Glu Val Phe Thr Lys Gln
145 150 155 160
Ile Gln Gln Leu Gln Gly Glu Leu Arg Ser Leu Arg Glu Glu Ile Ser
165 170 175
Leu Leu Glu His Glu Lys Glu Ser Glu Leu Lys Glu Ile Glu Gln Glu
180 185 190
Leu His Leu Ala Gln Ala Glu Ile Gln Ser Leu Arg Gln Ala Ala Glu

195	200	205	
Asp Ser Ala Thr Glu His Glu Ser Asp Ile Ala Ser Leu Gln Glu Asp			
210	215	220	
Leu Cys Arg Met Gln Asn Glu Leu Glu Asp Met Glu Arg Ile Arg Gly			
225	230	235	240
Asp Tyr Glu Met Glu Ile Ala Ser Leu Arg Ala Glu Met Glu Met Lys			
245	250	255	
Ser Ser Glu Pro Ser Glu Glu Leu Gln Glu Leu Arg Glu Arg Tyr His			
260	265	270	
Phe Leu Asn Glu Glu Tyr Arg Ala Leu Gln Glu Ser Asn Ser Ser Leu			
275	280	285	
Thr Gly Gln Leu Ala Asp Leu Glu Ser Glu Arg Thr Gln Arg Ala Thr			
290	295	300	
Glu Arg Trp Leu Gln Ser Gln Thr Leu Ser Met Thr Ser Ala Glu Ser			
305	310	315	320
Gln Thr Ser Glu Met Asp Phe Leu Glu Pro Asp Pro Glu Met Gln Leu			
325	330	335	
Leu Arg Gln Gln Leu Arg Asp Ala Glu Glu Gln Met His Gly Met Lys			
340	345	350	
Asn Lys Cys Gln Glu Leu Cys Cys Glu Leu Glu Glu Leu Gln His His			
355	360	365	
Arg Gln Val Ser Glu Glu Glu Gln Arg Arg Leu Gln Arg Glu Leu Lys			
370	375	380	
Cys Ala Gln Asn Glu Val Leu Arg Phe Gln Thr Ser His Ser Val Thr			
385	390	395	400
Gln Ser Ser Pro Thr Pro Asn Pro Pro Ile Phe Ser Leu Pro Leu Val			
405	410	415	
Gly Leu Val Val Ile Ser Ala Leu Leu Trp Cys Trp Trp Ala Glu Thr			
420	425	430	

Ser Ser

<210> 2245

<211> 361

<212> PRT

<213> Homo sapiens

<400> 2245

Met Ser Thr Ala Arg Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val

1 5 10 15

Phe Gln Ile Asp Pro Ala Thr Lys Arg Asn Trp Ile Pro Ala Gly Lys

20 25 30

His Ala Leu Thr Val Ser Tyr Phe Tyr Asp Ala Thr Arg Asn Val Tyr

35 40 45

Arg Ile Ile Ser Ile Gly Gly Ala Lys Ala Ile Ile Asn Ser Thr Val

50 55 60

Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp

65 70 75 80

Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ala Ser Glu

85 90 95

Gln His Leu Thr Gln Phe Ala Glu Lys Phe Gln Glu Val Lys Glu Ala

100 105 110

Ala Arg Leu Ala Arg Glu Lys Ser Gln Asp Gly Gly Glu Leu Thr Ser

115 120 125

Pro Ala Leu Gly Leu Ala Ser His Gln Val Pro Pro Ser Pro Leu Val

130 135 140

Ser Ala Asn Gly Pro Gly Glu Glu Lys Leu Phe Arg Ser Gln Ser Ala

145 150 155 160
Asp Ala Pro Gly Pro Thr Glu Arg Glu Arg Leu Lys Lys Met Leu Ser
 165 170 175
Glu Gly Ser Val Gly Glu Val Gln Trp Glu Ala Glu Phe Phe Ala Leu
 180 185 190
Gln Asp Ser Asn Asn Lys Leu Ala Gly Ala Leu Arg Glu Ala Asn Ala
 195 200 205
Ala Ala Ala Gln Trp Arg Gln Gln Leu Glu Ala Gln Arg Ala Glu Ala
 210 215 220
Glu Arg Leu Arg Gln Arg Val Ala Glu Leu Glu Ala Gln Ala Ala Ser
225 230 235 240
Glu Val Thr Pro Thr Gly Glu Lys Glu Gly Leu Gly Gln Gly Gln Ser
 245 250 255
Leu Glu Gln Leu Glu Ala Leu Val Gln Thr Lys Asp Gln Glu Ile Gln
 260 265 270
Thr Leu Lys Ser Gln Thr Gly Gly Pro Arg Glu Ala Leu Glu Ala Ala
 275 280 285
Glu Arg Glu Glu Thr Gln Gln Lys Val Gln Asp Leu Glu Thr Arg Asn
 290 295 300
Ala Glu Leu Glu His Gln Leu Arg Ala Met Glu Arg Ser Leu Glu Glu
305 310 315 320
Ala Arg Ala Glu Arg Glu Arg Ala Arg Ala Glu Val Gly Arg Ala Ala
 325 330 335
Gln Leu Leu Asp Val Arg Leu Phe Glu Leu Ser Glu Leu Arg Glu Gly
 340 345 350
Leu Ala Arg Leu Ala Glu Ala Ala Pro
 355 360

<210> 2246

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2246

Met Ala Gly Thr Leu Leu Ser Pro Pro Ser Gly Val Pro Leu Glu Arg

1 5 10 15

Leu Ile Arg Val Ala Thr Glu Arg Gly Tyr Thr Ala Gln Gly Glu Met

20 25 30

Phe Ser Val Ala Asp Met Gly Arg Leu Ala Gln Glu Val Leu Gly Cys

35 40 45

Gln Ala Lys Leu Leu Ser Gly Gly Leu Gly Gly Pro Asn Arg Asp Leu

50 55 60

Val Leu Gln His Leu Val Thr Gly His Pro Leu Leu Ile Pro Tyr Asp

65 70 75 80

Glu Asp Phe Asn His Glu Pro Cys Gln Arg Lys Gly His Lys Ala His

85 90 95

Trp Ala Gly Ser Cys Trp Val Phe Gly Leu Cys Pro Val Ser Ala Thr

100 105 110

Leu Arg Thr Leu Ser Cys Arg Ala Cys Ser Thr Gln Cys Trp Ala Arg

115 120 125

Pro Ala Asn His His Pro Cys Gln Arg Arg Ala Pro Arg Glu Leu Ser

130 135 140

Thr Cys Cys Pro Ser Arg Ala Arg Val Gly Thr Ile Ser Cys Gly Thr

145 150 155 160

Thr Thr Arg Ser Gly Arg Ala Thr Cys Ser

165 170

<210> 2247

<211> 317

<212> PRT

<213> Homo sapiens

<400> 2247

Met Arg Lys Thr Ser Asn Ser Cys Ile Met Glu Asn Gly His Gln Pro

1 5 10 15

Gly Thr Gly Pro Gly Asp Gly Pro Pro Glu Ile Ala Gln Asn Phe Ser

20 25 30

Ala Pro Asp Pro Pro Arg Pro Arg Pro Val Ser Leu Ser Leu Arg Leu

35 40 45

Pro His Gln Pro Val Thr Ala Ile Thr Arg Val Ser Asp Arg Phe Ser

50 55 60

Gly Glu Thr Ser Ala Ala Ala Leu Ser Pro Met Ser Ala Ala Thr Leu

65 70 75 80

Gly Gly Leu Asn Pro Ser Pro Ser Glu Val Ile Thr Pro Trp Thr Pro

85 90 95

Ser Pro Ser Glu Lys Asn Ser Ser Phe Thr Trp Ser Val Pro Ser Ser

100 105 110

Gly Tyr Gly Ala Val Thr Ala Ser Lys His Ser Asn Ser Pro Pro Leu

115 120 125

Val Thr Pro Pro Gln Ser Pro Val Ser Pro Gln Pro Pro Ala Ile Thr

130 135 140

Gln Val His Arg Gln Gly Glu Arg Arg Arg Glu Leu Val Arg Ser Gln

145 150 155 160

Thr Leu Pro Arg Thr Ser Glu Ala Gln Ala Arg Lys Ala Leu Phe Glu

165 170 175

Lys Trp Glu Gln Glu Thr Ala Ala Gly Lys Gly Lys Gly Glu Ala Arg
 180 185 190
 Ala Arg Leu Lys Arg Ser Gln Ser Phe Gly Val Ala Ser Ala Ser Ser
 195 200 205
 Ile Lys Gln Ile Leu Leu Glu Trp Cys Arg Ser Lys Thr Leu Gly Tyr
 210 215 220
 Gln His Val Asp Leu Gln Asn Phe Ser Ser Ser Trp Ser Asp Gly Met
 225 230 235 240
 Ala Phe Cys Ala Leu Val His Ser Phe Phe Pro Asp Ala Phe Asp Tyr
 245 250 255
 Asn Ser Leu Ser Pro Thr Gln Arg Gln Lys Asn Phe Glu Leu Ala Phe
 260 265 270
 Thr Met Ala Glu Asn Leu Ala Asn Cys Glu Arg Leu Ile Glu Val Glu
 275 280 285
 Asp Met Met Val Met Gly Arg Lys Pro Asp Pro Met Cys Val Phe Thr
 290 295 300
 Tyr Val Gln Ser Leu Tyr Asn His Leu Arg Arg Phe Glu
 305 310 315

<210> 2248

<211> 562

<212> PRT

<213> Homo sapiens

<400> 2248

Met Gly Lys Asp Gln Glu Leu Leu Glu Ala Ala Arg Thr Gly Asn Val
 1 5 10 15
 Ala Leu Val Glu Lys Leu Leu Ser Gly Arg Lys Gly Gly Ile Leu Gly

20	25	30
Gly Gly Ser Gly Pro Leu Pro Leu Ser Asn Leu Leu Ser Ile Trp Arg		
35	40	45
Gly Pro Asn Val Asn Cys Thr Asp Ser Ser Gly Tyr Thr Ala Leu His		
50	55	60
His Ala Ala Leu Asn Gly His Lys Asp Ile Val Leu Lys Leu Leu Gln		
65	70	75
Tyr Glu Ala Ser Thr Asn Val Ala Asp Asn Lys Gly Tyr Phe Pro Ile		
85	90	95
His Leu Ala Ala Trp Lys Gly Asp Val Glu Ile Val Lys Ile Leu Ile		
100	105	110
His His Gly Pro Ser His Ser Arg Val Asn Glu Gln Asn Asn Glu Asn		
115	120	125
Glu Thr Ala Leu His Cys Ala Ala Gln Tyr Gly His Ser Glu Val Val		
130	135	140
Ala Val Leu Leu Glu Glu Leu Thr Asp Pro Thr Ile Arg Asn Ser Lys		
145	150	155
Leu Glu Thr Pro Leu Asp Leu Ala Ala Leu Tyr Gly Arg Leu Arg Val		
165	170	175
Val Lys Met Ile Ile Ser Ala His Pro Asn Leu Met Ser Cys Asn Thr		
180	185	190
Arg Lys His Thr Pro Leu His Leu Ala Ala Arg Asn Gly His Lys Ala		
195	200	205
Val Val Gln Val Leu Leu Glu Ala Gly Met Asp Val Ser Cys Gln Thr		
210	215	220
Glu Lys Gly Ser Ala Leu His Glu Ala Ala Leu Phe Gly Lys Val Asp		
225	230	235
Val Val Arg Val Leu Leu Glu Thr Glu Tyr Leu Glu Gly Val Gly Arg		
245	250	255

Ser Thr Val Pro Glu Glu Pro Val Gln Glu Asp Ala Thr Gln Glu Thr
 260 265 270
 His Ile Ser Ser Pro Val Glu Ser Pro Ser Gln Lys Thr Lys Ser Glu
 275 280 285
 Thr Val Thr Gly Glu Leu Ser Lys Leu Leu Asp Glu Ile Lys Leu Cys
 290 295 300
 Gln Glu Lys Asp Tyr Ser Phe Glu Asp Leu Cys His Thr Ile Ser Asp
 305 310 315 320
 His Tyr Leu Asp Asn Leu Ser Lys Ile Ser Glu Glu Glu Leu Gly Lys
 325 330 335
 Asn Gly Ser Gln Ser Val Arg Thr Ser Ser Thr Ile Asn Leu Ser Pro
 340 345 350
 Gly Glu Val Glu Glu Glu Asp Asp Asp Glu Asn Thr Cys Gly Pro Ser
 355 360 365
 Gly Leu Trp Glu Ala Leu Thr Pro Cys Asn Gly Cys Arg Asn Leu Gly
 370 375 380
 Phe Pro Thr Leu Ala Gln Glu Ser Tyr Pro Lys Lys Arg Asn Tyr Thr
 385 390 395 400
 Met Glu Ile Val Pro Ser Ala Ser Leu Asp Thr Phe Pro Ser Glu Asn
 405 410 415
 Glu Asn Phe Leu Cys Asp Leu Met Asp Thr Ala Val Thr Lys Lys Pro
 420 425 430
 Cys Ser Leu Glu Ile Ala Arg Ala Pro Ser Pro Arg Thr Asp Asn Ala
 435 440 445
 Ser Glu Val Ala Val Thr Thr Pro Gly Thr Ser Asn His Arg Asn Ser
 450 455 460
 Ser Thr Gly Pro Thr Pro Asp Cys Ser Pro Pro Ser Pro Asp Thr Ala
 465 470 475 480
 Leu Lys Asn Ile Val Lys Val Ile Arg Pro Gln Pro Lys Gln Arg Thr

	485		490		495
Ser Ile Val Ser Ser Leu Asp Phe His Arg Met Asn His Asn Gln Glu					
	500		505		510
Tyr Phe Glu Thr Asn Thr Ser Thr Gly Cys Thr Ser Phe Thr Ala Ser					
	515		520		525
Pro Pro Ala Ser Pro Pro Thr Ser Ser Val Gly Thr Thr Glu Val Lys					
	530		535		540
Asn Glu Gly Thr Asn His Thr Asp Asp Leu Ser Arg Gln Asp Asp Asn					
545		550		555	560
Asp Pro					

<210> 2249

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2249

Met Ser Arg Gly Gly Arg Gly Arg Lys Gly Gly Ser Leu Val Ile Val			
1	5	10	15
Ala Lys Thr Pro Val Pro Ser Leu Thr Ser Ser Leu Gln Arg Pro Ser			
	20	25	30
Ser Cys Gly Ala Cys Trp Glu Thr Lys Val Gly Phe Arg Pro Leu Ala			
	35	40	45
Met Leu Ser Ser Pro Leu Leu Arg Ser Ala Pro Trp Leu Gln Gly Cys			
	50	55	60
Gly Gly Pro Gln Asn Gln Ala Glu Trp Glu Leu Glu Thr Val Ala Glu			
65	70	75	80

Gly His Pro Gly Leu Leu Gly Pro Leu Gln Pro Ser Val Ser Thr Ala
 85 90 95
 Leu Ser Pro Ala Gln Gln Thr Ile Val Arg Ala Leu Val Phe Arg Pro
 100 105 110
 Ser His Met Val Gly Pro Lys Arg Ala Pro Tyr Ala His Cys Leu Pro
 115 120 125
 Asp Thr Arg Lys Asn His Val Gly Ile Gly Gly Pro Arg Ala Leu Pro
 130 135 140
 Phe Leu His Pro Ser Ser
 145 150

<210> 2250

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2250

Met Ala Gly Arg Gly Arg Ala Leu Phe Pro Ala Gly Ala Leu Val Leu
 1 5 10 15
 Gly Gln Val Ser Ala Leu Ala Val Gly Ser Asn Ser Pro Ser Gly Gln
 20 25 30
 Ser Arg Asp Gly Ala Thr Leu Gln Asn Ala His Pro Gln Val Glu Ser
 35 40 45
 Trp Val Pro Arg Ala Gln Thr His Pro Ala Pro Pro Gln Thr Trp Ala
 50 55 60
 Pro Phe Phe Thr Met His Ser Ser Glu Gln Pro Cys Arg Gln Thr Trp
 65 70 75 80
 Arg Ala Ser Val Leu Ser Ser Cys Glu Gly Leu Cys Leu Gly Pro Trp

	85		90		95
Arg His Cys Gly Ala Gly Thr Gly Arg Ala Pro Ala Asn Ile Lys Gly					
100		105		110	
Val Val Ser Met Ser Met Gln Gly Cys Leu Ile Ala Val Ser Glu Phe					
115		120		125	
Pro Thr Gly Ser Cys Arg Ala Leu Trp Glu His Thr Leu Phe					
130		135		140	

<210> 2251

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2251

Met Asp Ala Cys Thr Arg Thr Glu His Lys Leu Ser Arg Asp Ser Pro					
1		5		10	
Ser Asn Lys Leu Leu Tyr Ala Lys Glu Ile Ser Thr Tyr Lys Lys Met					
20		25		30	
Val Glu Asp Tyr Tyr Lys Gly Ile Arg Gln Met Val Gln Val Ser Asp					
35		40		45	
Gln Asp Met Asn Thr His Leu Ala Glu Ile Ser Arg Ala His Thr Asp					
50		55		60	
Ser Leu Asn Thr Leu Val Ala Leu His Gln Leu Tyr Gln Tyr Thr Gln					
65		70		75	
Lys Tyr Tyr Asp Glu Ile Ile Asn Ala Leu Glu Glu Asp Pro Ala Ala					
85		90		95	
Gln Lys Met Gln Leu Ala Phe Arg Leu Gln Gln Ile Ala Ala Ala Leu					
100		105		110	

Glu Asn Lys Val Thr Asp Leu

115

<210> 2252

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2252

Met Arg Arg Ala Arg Pro Lys Gly Asp Pro Leu His Ile Pro Ser His

1 5 10 15

Ala Ser Ala His Cys Ser Pro Gly Pro Ser Val Pro Pro Leu Ala Gly

20 25 30

Ala Val Ser Leu Ala Trp Glu Leu Met Ala Pro Phe Cys Val Pro Thr

35 40 45

Gly Ser Phe Arg Ala Arg Leu Arg Pro His His Tyr Arg His Pro Gly

50 55 60

Gly Thr Asp Phe Leu Leu Cys Gly Arg Leu Pro Pro Ala Val Pro Glu

65 70 75 80

Gln Glu Pro Gln Trp Leu Leu Arg Pro Trp Gly His Arg Arg Val Leu

85 90 95

Pro Ser Gly Tyr

100

<210> 2253

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2253

Met Lys Thr Phe Ala Leu Phe Asn His Leu Arg Thr His Thr Glu Glu
1 5 10 15
Arg Ser Leu Asn Thr Trp Tyr Glu Glu Arg Pro Ser Arg Arg Asn Arg
20 25 30
Phe Leu Ser Ile Thr Lys Lys Phe Thr Val Glu Lys Thr Pro Ala Ser
35 40 45
Lys Glu Cys Gly Met Val Phe Ser His Leu Ser Tyr Val Arg Lys Leu
50 55 60
Tyr Lys Val Pro Met Gly Lys Arg His Tyr Lys Cys Ser Glu Asn Gly
65 70 75 80
Lys Ala Phe Ser Tyr Arg His Pro Leu Leu Arg Lys Ile Thr Arg Glu
85 90 95
Phe Thr Arg Glu Leu Trp Ala Thr Asn Val Gly Lys Pro Gln Leu Pro
100 105 110
Glu Ser

<210> 2254

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2254

Met Val Leu Val Leu Val Leu Val Val Met Cys Trp His Val Arg Phe
1 5 10 15

Leu Phe Ser Phe Pro Leu Leu Ser Ala Ser Thr Phe Cys Ser Leu Arg
 20 25 30
 Leu Pro Thr Glu Tyr Glu Arg Asn Gly Arg Tyr Glu Gly Ser Ser Arg
 35 40 45
 Asn Val Ser Ala Glu Gln Lys Asp Glu Asn Lys Glu Ala Lys Pro Arg
 50 55 60
 Ser Leu Arg Phe Thr Trp Ser Met Lys Thr Thr Ser Ser Met Asp Pro
 65 70 75 80
 Gly Asp Met Met Arg Glu Ile Arg Lys Val Leu Asp Ala Asn Asn Cys
 85 90 95
 Asp Tyr Glu Gln Arg Glu Arg Phe Leu Leu Phe Cys Val His Gly Asp
 100 105 110
 Gly His Ala Glu Asn Leu Val Gln Trp Glu Met Glu Val Cys Lys Leu
 115 120 125
 Pro Arg Leu Ser Leu Asn Gly Val Arg Phe Lys Arg Ile Ser Gly Thr
 130 135 140
 Ser Ile Ala Phe Lys Asn Ile Ala Ser Lys Ile Ala Asn Glu Leu Lys
 145 150 155 160
 Leu

<210> 2255

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2255

Met Tyr Lys Val Glu Tyr Leu Phe Thr Ser Gln Cys Ile Arg Asn Leu

1	5	10	15
Phe Thr Gln Ala Ile Ile Leu Lys Thr Ala Leu Gln Val Val Cys Glu			
20	25	30	
Thr Phe Pro Glu Phe Ile Ser Thr Ser Ala Leu Ser Val Ala Ser Ser			
35	40	45	
Ile Pro Glu Leu Lys Lys Arg Pro Leu Pro Thr Ala Ser Asn Pro Ala			
50	55	60	
Phe Leu Val Ile Leu Leu Phe Phe Phe Asn Phe Lys Phe Trp Asp Thr			
65	70	75	80
Cys Ala Glu His Ala Gly Leu Leu His Arg Tyr Thr Cys Ala Tyr Val			
85	90	95	
Tyr Leu Cys Asn Met Val Val Thr Val Asn Met Val Val Tyr Cys Ile			
100	105	110	
Tyr Gln Pro Val Ile			
115			

<210> 2256

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2256

Met Met Gly Arg Gly Val Arg Trp Gly Ser Arg Ala Trp Glu Arg Met			
1	5	10	15
Ala His Ala Leu Lys Val His Glu Arg Pro Pro Leu Pro Thr Ser Ala			
20	25	30	
Glu Thr Ser Leu Asp Thr Lys Ser Val Ser Glu Gly His Leu Lys Arg			
35	40	45	

Asn Ile Val Val Lys Thr Val Glu Met Arg Asp Gly Glu Val Arg Arg
 50 55 60
 Asp Leu Gly Pro Val Arg Leu Trp Leu Ala Pro Gly Ile Leu Lys Ala
 65 70 75 80
 Arg Pro Trp Arg Lys Ala Trp Gly Trp His Ile Glu Gly Ser Gln Gln
 85 90 95
 Leu Pro Val Ala Pro Gln Gly Ile Leu Glu Glu Ser Lys Glu Thr Glu
 100 105 110
 Cys Asn Ser Val Ser Ser Val Pro Pro
 115 120

<210> 2257

<211> 193

<212> PRT

<213> Homo sapiens

<400> 2257

Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg
 1 5 10 15
 Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro
 20 25 30
 Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala
 35 40 45
 Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Trp Gly Arg
 50 55 60
 Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser
 65 70 75 80
 Arg Trp His Ala Ser Pro Gln Thr Gln Val Ala Phe Gly Pro Arg Trp

	85		90		95
Val	Ser	Leu	Leu	Pro	Leu
Pro	His	Thr	Pro	Ser	Gly
His	Trp	Asp	Pro		
	100		105		110
Cys	Pro	Ser	Asp	Val	Leu
Gly	Ser	Arg	Ser	Gly	Ala
Ser	His	Cys	Gly		
	115		120		125
Lys	Arg	Pro	Gly	Ala	Trp
Pro	Glu	Arg	Gln	Pro	Arg
Ala	Gly	Pro	Ser		
	130		135		140
Pro	Glu	Ser	Trp	Ser	Arg
Ala	Arg	Glu	Ala	Pro	Ile
Pro	Pro	Arg	Pro		
	145		150		155
Ala	Ala	Leu	Ser	Ala	Val
Ser	Ser	Ile	Cys	Ser	Ser
Phe	His	Pro	Leu		
	165		170		175
Val	Gly	Pro	Pro	Ser	Pro
Phe	Pro	Leu	Pro	Leu	Val
Pro	Ser	Ala	Gly		
	180		185		190
Arg					

<210> 2258

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2258

Met	Val	Phe	Gly	Phe	Pro	Phe	Leu	Ser	Tyr	Phe	Thr	Glu	Asn	Asn	Gly
1				5					10					15	
Leu	Gln	Leu	His	Pro	Ser	Cys	Cys	Lys	Arg	His	His	Phe	Val	Pro	Phe
			20					25					30		
Tyr	Gly	Cys	Val	Val	Phe	His	Gly	Val	Tyr	Thr	Ser	Arg	Phe	Leu	Tyr
			35					40					45		

Leu Leu Ile Gly Arg Trp Ala Leu Lys Leu Ala Pro Cys Ile Cys Asn
 50 55 60
 Cys Glu Leu Cys Cys Cys Lys Arg Val Cys Met Cys Leu Phe His Ile
 65 70 75 80
 Val Thr Ser Phe Pro Leu Thr Arg Leu Gln Ile Ile Leu Arg Gly Tyr
 85 90 95
 Ser Tyr Gln Asn Arg Val Ala Leu Val
 100 105

<210> 2259

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2259

Met Leu Arg Val Pro Gly Ser Cys Cys Pro Cys Pro Arg Pro Cys Pro
 1 5 10 15
 Pro Leu Ala Leu Gln Ser Pro Thr Pro Met Pro Thr Ser Gly Ser Pro
 20 25 30
 Leu Gln Ala Leu Leu Leu Tyr Pro Leu Asp Gln Trp Cys Leu Ala Gly
 35 40 45
 Cys Ser Arg Pro Leu Leu Val Gln Pro Gln Leu Pro Lys Gly Asp Ser
 50 55 60
 Lys Pro Ser Leu Arg Ala Glu Asp Leu Leu Gly Asp Arg Lys Arg Leu
 65 70 75 80
 Gly Ser Leu Ser Gly Ala Ser Ser His Pro Cys Cys Leu Trp Ile Met
 85 90 95
 Pro Thr Ala Pro Ile Ser Phe Gln Glu Ala Leu Ala Gln His Lys Thr

100	105	110
Gly Ser Leu Ser Phe Leu Pro Ser Ser Ser Leu Pro Pro Ser Ser Ile		
115	120	125
Thr Arg Thr Leu Val Thr Thr Gln Asn His Trp Val Val Pro Leu His		
130	135	140
Pro Leu Pro Val Leu Cys His Pro Pro Ser Lys Ala Pro Ala Leu Leu		
145	150	155
Cys Pro Ser Thr Gln Gly Ser Leu His Ser Ala		
165	170	

<210> 2260

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2260

Met Arg Asp Leu Thr Arg Gly His Val Ser Ala Ser Arg Phe Ile Val		
1	5	10
Cys Leu Gly Trp Pro Leu Glu Ala Leu Asp Leu Ile Val Pro Val Trp		
20	25	30
Lys Phe Leu Asn Ile Glu Asn Ile Ile His Met Met Thr Phe Phe Phe		
35	40	45
Leu Ser Glu Asp Thr Leu Ile Phe Ala Ile Ala Arg Phe Arg Asn Pro		
50	55	60
Thr Gln Thr Gly Leu Ser Lys Glu Gly Val Tyr Cys Ser Cys Ser Trp		
65	70	75
Glu Ala Trp Thr Gly Leu Gly Pro Gly Ala Leu Thr Ser Ser Gln Leu		
85	90	95

Gly Gln Gln Val Glu Arg Gly Leu Leu Leu Pro Ser Gly Cys His
 100 105 110

<210> 2261

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2261

Met Asn Thr Cys Ser Gln Gly Thr Leu His Asp Gln Leu Cys Phe Arg
 1 5 10 15
 Glu Gly Arg Ser Ser Pro Phe Lys Ala Arg Ile Pro Arg Arg Ser Val
 20 25 30
 His Tyr Leu Pro Ser Glu Leu Trp Ala Tyr Leu Tyr Phe Leu His Phe
 35 40 45
 Ser Arg Gln Glu Gly Gly Ser Ser Thr Glu Asn Pro Leu Ser Trp Val
 50 55 60
 Lys Glu His Ser Leu Gly Cys Leu Gly Glu Lys Ile Ser Ile Pro Arg
 65 70 75 80
 Ser Cys Ser Leu Gly Val Arg Trp Glu Gln Arg Arg Gln Ser Val Gly
 85 90 95
 Pro Leu Trp Arg Gln Gln Gly Gly Val Pro Cys Gly His
 100 105

<210> 2262

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2262

Met Arg Ala Gln Ala Asn Ser Gly Lys Phe Leu Ser Pro Arg Ala Glu
1 5 10 15
His Glu His Leu Glu Ala Lys Gly Ala Ala Trp Leu Leu Pro Thr Lys
20 25 30
Glu Thr Asp Gly Val Gln Leu Ile Pro Met Phe Leu Leu His Phe Thr
35 40 45
Pro Lys Phe Pro Ala Arg Ser Lys Ala Ser Pro Gly Thr Leu Val Phe
50 55 60
Leu Pro Lys Ala Ser Gln Gly His Pro Ala Ile Leu Met Arg Leu Pro
65 70 75 80
Val Pro Ser Cys Pro Ser Pro His Pro Arg Ile Asn His Gln Arg Arg
85 90 95
Thr Val Tyr Met Ser Ser Ser Leu Cys Leu Gly Arg Glu Thr Asn Lys
100 105 110
Arg Met Arg Arg Leu Gly Arg Pro Leu Ala Val Thr Ser Ser Asn Cys
115 120 125
Pro Cys Gln Gly Phe Met Glu Glu Glu Thr Glu Ala Ala Leu Cys
130 135 140

<210> 2263

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2263

Met Ala Leu Asn Asn Phe Leu Phe Ala Gln Cys Ala Cys Tyr Phe Leu
1 5 10 15
Ala Phe Leu Phe Ser Phe Val Val Val Val Pro Leu Ser Glu Asn Gly
20 25 30
His Asp Phe Arg Gly Arg Cys Leu Leu Phe Thr Glu Gly Met Trp Leu
35 40 45
Ser Ala Asn Leu Thr Val Gln Glu Arg Glu Arg Phe Thr Val Gln Glu
50 55 60
Trp Gly Pro Pro Ala Ala Cys Arg Phe Ser Leu Leu Ala Ser Leu Leu
65 70 75 80
Ser Leu Leu Leu Ala Ala Ala His Ala Trp Arg Thr Leu Phe Phe Leu
85 90 95
Cys Lys Gly His Glu Gly Ser Phe Phe Ser Ala Phe Leu Asn Leu Leu
100 105 110
Val Ser Ala Phe Val Val Phe Leu Val Phe Ile Ala Ser Thr Ile Val
115 120 125
Ser Val Gly Phe Thr Met Trp Cys Asp Thr Ile Thr Glu Lys Gly Thr
130 135 140
Val Pro His Ser Cys Glu Glu Leu Gln Asp Ile Asp Leu Glu Leu Gly
145 150 155 160
Val Asp Asn Ser Ala Phe Tyr Asp Gln Phe Ala Ile Ala Gln Val Gly
165 170 175
Gly Ser Gly Gln Glu Gly Arg Leu Ala Met Leu Gly Gly Gly His Leu
180 185 190
Leu Leu Asp Ile Cys
195

<210> 2264

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2264

Met Gly Asn Val Cys Ser Pro Tyr Ser Arg Cys Leu Cys Leu Thr Leu

1 5 10 15

Gly Ala Cys Pro Ala Pro Phe Gln Pro Pro Leu Pro Cys Cys Ser Pro

20 25 30

Pro Ser Ser Gly Leu Ser Thr Asp Leu Lys Ala Pro Leu Gly Gln Ile

35 40 45

Pro Pro Glu Ser Leu Ser His Pro Gln Gly Thr Gln Ala Arg Pro Ser

50 55 60

Trp Ser Ser Trp Thr Val Leu Gln Glu Ala Ala Gln Gln Arg Leu Trp

65 70 75 80

Asp Gln Gln Cys Gln Thr Thr Val Phe Thr Cys Ser Pro His Gly Val

85 90 95

Leu Met Cys Gly Trp Pro Leu Ala Ala Pro Glu Gln

100 105

<210> 2265

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2265

Met Asn Asn Ser Ser Leu Leu Arg Pro Ser Pro Lys Ala Gln Gly Pro

1 5 10 15

Leu Val Ser Ala Val Cys Thr Ser Ser Val Arg Arg Gln Asp Ser Arg
 20 25 30
 Ser Met Lys Arg Ala Gly Gln Lys Thr Pro Thr Leu Ala Gly Arg His
 35 40 45
 Val Pro Leu Lys Ile Lys Lys Glu Ala Ile Trp Glu Gln Cys Ser Ser
 50 55 60
 Tyr Val Arg Pro Gly His Phe Leu Phe Thr Gly Asp Tyr Lys Thr Phe
 65 70 75 80
 Val Leu Ser Ser Leu Asp Val Asp Ala Ile Leu Gly Leu Ser Pro Pro
 85 90 95
 Ala Pro Arg His
 100

<210> 2266

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2266

Met Asn Ser Leu His Ala Gly Arg Gln Gln Ala Phe Gln Glu Asp Pro
 1 5 10 15
 Gly Pro Thr Gly Leu Gly Lys Asp Thr Ser Ala Gly Arg Arg Thr Arg
 20 25 30
 Ser Thr Glu Ala Leu Gln Ser Ala Leu Ser Ala Lys Leu Ile Gly Arg
 35 40 45
 Gly Gly Gly Leu Pro Asn Gly Cys Thr Gly Thr Pro Thr Thr Cys His
 50 55 60
 Leu Pro Gly Gln Tyr Leu Gly Thr Glu Leu Ser Pro Lys Ser Lys Asn

65 70 75 80
 Ile Ser Lys His Thr Val Glu Lys Trp Arg Leu Glu Val Thr Val His
 85 90 95
 Arg Glu Pro Ala Trp Asn Leu Trp Ala Gly Thr Arg Ala Gly Gln Phe
 100 105 110
 Gln Thr Arg Gly Ser Arg Lys Gln Thr Gln Pro Arg Pro Leu Pro Arg
 115 120 125
 Thr His Leu Leu Pro Pro Pro Thr Pro Arg Arg Pro His Gln Glu Ser
 130 135 140
 His Pro Trp Ala Pro Thr Met His Gln Thr Ala His Tyr Cys Arg Arg
 145 150 155 160
 Asn Ala Thr Arg Asp Lys Pro Pro Ala
 165

<210> 2267

<211> 482

<212> PRT

<213> Homo sapiens

<400> 2267

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln
 1 5 10 15
 Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Val Ser Tyr Ile
 20 25 30
 Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Glu Asp
 35 40 45
 Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys
 50 55 60

Thr Gln Val Thr Lys Asn Glu Leu Gly Val Leu Ala Pro Ser Gln Leu
65 70 75 80
Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro
85 90 95
Ser Cys Phe Thr Asn Leu Trp Ala Pro Ile Asn Glu Ala Leu Leu His
100 105 110
Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser
115 120 125
His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly
130 135 140
Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro
145 150 155 160
Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu
165 170 175
Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu
180 185 190
Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala
195 200 205
Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp
210 215 220
Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro
225 230 235 240
Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu
245 250 255
Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His
260 265 270
Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro
275 280 285
His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln

290 295 300
Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu
305 310 315 320
Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp
325 330 335
Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu
340 345 350
Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro
355 360 365
Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr
370 375 380
Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Leu Pro
385 390 395 400
Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg
405 410 415
Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp
420 425 430
Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp
435 440 445
Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln
450 455 460
Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg
465 470 475 480
Pro His

<210> 2268

<211> 520

<212> PRT

<213> Homo sapiens

<400> 2268

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Met Asn Tyr Lys Gln Lys Asp Leu Asp Asn Phe Thr Ser Lys Gly Lys
  1           5           10           15
His Leu Leu Ser Glu Leu Lys Lys Ile His Ser Ser Asp Phe Ser Leu
      20           25           30
Val Lys Thr Asp Met Glu Ser Thr Val Asp Lys Trp Leu Asp Val Ser
      35           40           45
Glu Lys Leu Glu Glu Asn Met Asp Arg Leu Arg Val Ser Leu Ser Ile
      50           55           60
Trp Asp Asp Val Leu Ser Thr Arg Asp Glu Ile Glu Gly Trp Ser Asn
      65           70           75           80
Asn Cys Val Pro Gln Met Ala Glu Asn Ile Ser Asn Leu Asp Asn His
      85           90           95
Leu Arg Ala Glu Glu Leu Leu Lys Glu Phe Glu Ser Glu Val Lys Asn
      100          105          110
Lys Ala Leu Arg Leu Glu Glu Leu His Ser Lys Val Asn Asp Leu Lys
      115          120          125
Glu Leu Thr Lys Asn Leu Glu Thr Pro Pro Asp Leu Gln Phe Ile Glu
      130          135          140
Ala Asp Leu Met Gln Lys Leu Glu His Ala Lys Glu Ile Thr Glu Val
      145          150          155          160
Ala Lys Gly Thr Leu Lys Asp Phe Thr Ala Gln Ser Thr Gln Val Glu
      165          170          175
Lys Phe Ile Asn Asp Ile Thr Thr Trp Phe Thr Lys Val Glu Glu Ser
      180          185          190
Leu Met Asn Cys Ala Gln Asn Glu Thr Cys Glu Ala Leu Lys Lys Val

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195	200	205
Lys Asp Ile Gln Lys Glu Leu Gln Ser Gln Gln Ser Asn Ile Ser Ser		
210	215	220
Thr Gln Glu Asn Leu Asn Ser Leu Cys Arg Lys Tyr His Pro Ala Glu		
225	230	235
Leu Glu Ser Leu Gly Arg Ala Met Thr Gly Leu Ile Lys Lys His Glu		
245	250	255
Ala Val Ser Gln Leu Cys Ser Lys Thr Gln Ala Ser Leu Gln Glu Ser		
260	265	270
Leu Glu Lys His Phe Ser Glu Ser Met Gln Glu Phe Gln Glu Trp Phe		
275	280	285
Leu Gly Ala Lys Ala Ala Ala Lys Glu Ser Ser Asp Arg Thr Gly Asp		
290	295	300
Ser Lys Val Leu Glu Ala Lys Leu His Asp Leu Gln Asn Ile Leu Asp		
305	310	315
Ser Val Ser Asp Gly Gln Ser Lys Leu Asp Ala Val Thr Gln Glu Gly		
325	330	335
Gln Thr Leu Tyr Ala His Leu Ser Lys Gln Ile Val Ser Ser Ile Gln		
340	345	350
Glu Gln Ile Thr Lys Ala Asn Glu Glu Phe Gln Ala Phe Leu Lys Gln		
355	360	365
Cys Leu Lys Asp Lys Gln Ala Leu Gln Asp Cys Ala Ser Glu Leu Gly		
370	375	380
Ser Phe Glu Asp Gln His Arg Lys Leu Asn Leu Trp Ile His Glu Met		
385	390	395
Glu Glu Arg Phe Asn Thr Glu Asn Leu Gly Glu Ser Lys Gln His Ile		
405	410	415
Pro Glu Lys Lys Asn Glu Val His Lys Val Glu Met Phe Leu Gly Glu		
420	425	430

Leu Leu Ala Ala Arg Glu Ser Leu Asp Glu Leu Ser Gln Arg Gly Gln

435

440

445

Leu Leu Ser Glu Glu Gly His Gly Ala Gly Gln Glu Gly Arg Leu Cys

450

455

460

Ser Gln Leu Leu Thr Ser His Gln Asn Leu Leu Arg Met Thr Lys Glu

465

470

475

480

Lys Leu Arg Ser Cys Gln Val Ala Leu Gln Glu His Glu Ala Leu Glu

485

490

495

Glu Ala Leu Gln Ser Met Trp Phe Trp Val Lys Ala Ile Gln Asp Arg

500

505

510

Leu Ala Cys Ala Val Phe Thr Pro

515

520

<210> 2269

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2269

Met Ile Val Ser Ser Gln Gln Asp Leu Val Lys Cys Val Ala Thr His

1

5

10

15

Pro Arg Cys Ser His Asp Ser Glu Leu Ser Gly Asp Leu Val Lys Cys

20

25

30

Val Glu Thr Pro Pro Cys Cys Ser His Glu Ser Glu Pro Arg Glu Thr

35

40

45

Trp Leu Ser Val Gln His Leu Pro Leu Ala Val Leu Ile Thr Val Ser

50

55

60

Cys His Glu Ile Trp Leu Phe Arg Ser Val Trp His Leu Pro Leu Cys

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<210> 2271

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2271

Met Arg Gln Ser Leu Val Leu Ser Pro Lys Leu Glu Cys Ser Gly Thr
1 5 10 15
Ile Ser Gly His Cys Asn His Arg Leu Pro Cys Ser Asn Asn Ser Pro
20 25 30
Ala Ser Ala Pro Arg Val Ala Gly Ile Thr Ser Val Cys His His Ala
35 40 45
Gln Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Tyr His Val Gly
50 55 60
Gln Ala Gly Leu Glu Leu Leu Thr Ser Ser Asp Leu Pro Ser Ser Ala
65 70 75 80
Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His His Thr Trp Pro Lys
85 90 95
Leu Val Tyr Ile Arg Thr Arg
100

<210> 2272

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2272

Met Ile Leu Gly Met Gly Leu Trp Ile Asp Pro Pro Arg Asp Glu Lys

1 5 10 15
Ala Gly Arg Ile Cys Gln Gln Arg His Gly Ala Asp Pro Ala Arg Cys
20 25 30
Pro Arg Ala Val Pro Ser Ala Gln Arg Gly Ala Val His His Pro Gly
35 40 45
Tyr Trp Asn Pro Leu Pro Arg Ile Phe Phe Ser Pro Ser Thr Thr Ala
50 55 60
Glu Asn Gln Ser Ala Arg Pro Ser Pro Val Arg Cys Leu His Ser Gly
65 70 75 80
Thr Ser Ala Leu Thr Ser Cys Lys Pro Asn Leu Thr Phe Thr Gly Ser
85 90 95
Lys Ile Ser Ile Ser Gly Ser Gln Trp Ser Asp Pro Thr Ser Pro Pro
100 105 110
Ser Gln Gly Gln Thr Thr Glu Glu Trp Ser Tyr Leu Val Phe Leu His
115 120 125
Phe Pro Ala Lys Gly Lys Met Val Leu Pro Ala Lys Leu Ser Leu Gln
130 135 140
Pro Gly Gly Ala Ser Ile Lys Val
145 150

<210> 2273

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2273

Met Ala Pro Trp Ser Tyr Phe Leu Ser Gln Thr Phe Ser His Ser Phe
1 5 10 15

Asp Leu Ile Gln Asp Phe Lys Ile Leu Lys Ser Ser Pro Ala Lys Gly
20 25 30
Arg Met Gly Gly His Val Asn Asp Lys Gln Arg Arg Thr Leu Val Asn
35 40 45
Asp Lys Asp Arg Phe Leu Pro Val Met His Tyr Cys Asn Gln Glu Arg
50 55 60
Ser Pro Ala Arg Ala Asp Phe Asp Leu Cys Arg Gly Asp Trp Val Leu
65 70 75 80
Ser Arg Glu Asn Glu Gly Thr Arg Cys Gly Gly Ser Cys Met Pro Val
85 90 95
Ile Pro Ala Leu Trp Glu Ala Asp Val Val Gly Ser Leu Gly Ile Gly
100 105 110
Ser Leu Arg Pro Ala Trp Leu Thr Phe Phe Phe Pro Ser Leu Pro Lys
115 120 125
Lys Thr Lys Asn Lys Asn Trp Pro Ala Ala Val Ala Arg Pro Val Val
130 135 140
Pro Ala Thr Arg Gly Ala Glu Val Gly Glu Leu Leu Gly Pro Gly Arg
145 150 155 160
Arg Arg Leu Arg

<210> 2274

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2274

Met Pro Leu Ser Arg Arg Ser Gly Asp Ser Pro Ala Pro Arg Ile Pro

1	5	10	15
Gly Trp Arg Asp Ala Ser Arg Pro Arg Gly Leu Val Ala Arg Ala Gly			
20	25	30	
Arg Arg Thr Arg Arg Arg Ala Leu Pro Gly Leu Ala Trp Ala Cys Ser			
35	40	45	
Glu Pro Gly Cys Phe Ser Val Thr Thr Gln Ile Gly Gly Ile Trp Arg			
50	55	60	
Phe Cys Gly Ser Pro Ala Ala Lys Leu Arg Gly Arg Arg Gly Leu Glu			
65	70	75	80
Ala Cys Thr Thr Cys Ser Pro Arg Pro Ser Met His Pro Gly Trp Asn			
85	90	95	
Ala Val Val Gln Thr Arg Leu Ala Ala Ala Phe Thr Ser Trp Ala Gln			
100	105	110	
Ala Leu Leu Pro Pro Gln Pro Cys Lys			
115	120		

<210> 2275

<211> 197

<212> PRT

<213> Homo sapiens

<400> 2275

Met Leu Asn Gly Thr His Gly Pro Ser Ser Glu Lys Lys Ser Asn Ile			
1	5	10	15
Pro Asp Leu Ser Ile Tyr Leu Lys Gly Glu Asp Ala Phe Asp Ala Leu			
20	25	30	
Pro Pro Ser Leu Pro Pro Pro Pro Pro Pro Ala Arg His Ser Leu Ile			
35	40	45	

Glu His Ser Lys Pro Pro Gly Ser Ser Ser Arg Pro Ser Ser Gly Gln
 50 55 60
 Asp Leu Leu Leu Leu Pro Ser Asp Pro Phe Val Asp Leu Ala Ser Gly
 65 70 75 80
 Gln Val Pro Leu Pro Pro Ala Arg Arg Leu Pro Gly Glu Asn Val Lys
 85 90 95
 Thr Asn Arg Thr Ser Gln Asp Tyr Asp Gln Leu Pro Ser Cys Ser Asp
 100 105 110
 Gly Ser Gln Ala Pro Ala Arg Pro Pro Lys Pro Arg Pro Arg Arg Thr
 115 120 125
 Ala Pro Glu Ile His His Arg Lys Pro His Gly Pro Glu Ala Ala Leu
 130 135 140
 Glu Asn Val Asp Ala Lys Ile Ala Lys Leu Met Gly Glu Gly Tyr Ala
 145 150 155 160
 Phe Glu Glu Val Lys Arg Ala Leu Glu Ile Ala Gln Asn Asn Val Glu
 165 170 175
 Val Ala Arg Ser Ile Leu Arg Glu Phe Ala Phe Pro Pro Pro Val Ser
 180 185 190
 Pro Arg Leu Asn Leu
 195

<210> 2276

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2276

Met Gln Phe Glu Phe Met Ile Glu Ser Ile Leu Tyr Ala Arg Asp Ala

1	5	10	15												
Trp	Leu	Lys	Glu	Asp	Gly	Val	Ile	Trp	Pro	Thr	Met	Ala	Ala	Leu	His
	20		25		30										
Leu	Val	Pro	Cys	Ser	Ala	Asp	Lys	Asp	Tyr	Arg	Ser	Lys	Val	Leu	Phe
	35		40		45										
Trp	Asp	Asn	Ala	Tyr	Glu	Phe	Asn	Leu	Ser	Ala	Leu	Lys	Ser	Leu	Ala
	50		55		60										
Val	Lys	Glu	Phe	Phe	Ser	Lys	Pro	Lys	Tyr	Asn	His	Ile	Leu	Lys	Pro
	65		70		75										
Glu	Asp	Cys	Leu	Ser	Glu	Pro	Cys	Thr	Ile	Leu	Gln	Leu	Asp	Met	Arg
	85		90		95										
Thr	Val	Gln	Ile	Ser	Asp	Leu	Glu	Val	Arg	Lys	Arg				
	100		105												

<210> 2277

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2277

Met	Asp	Arg	Arg	Lys	Gly	Asp	Arg	Thr	Leu	Pro	Val	Arg	Thr	Pro	Thr
1	5				10				15						
Met	Ala	Gly	Gly	Leu	Phe	Ser	Ile	Asp	Arg	Asn	Tyr	Phe	Glu	Glu	Ile
	20		25		30										
Gly	Thr	Tyr	Asp	Ala	Gly	Met	Asp	Ile	Trp	Gly	Gly	Glu	Asn	Leu	Glu
	35		40		45										
Met	Ser	Phe	Arg	Ile	Trp	Gln	Cys	Gly	Gly	Ser	Leu	Glu	Ile	Val	Thr
	50		55		60										

Cys Ser His Val Gly His Val Phe Arg Lys Ala Thr Pro Tyr Thr Phe
 65 70 75 80
 Pro Gly Gly Thr Gly His Val Ile Asn Lys Asn Asn Arg Arg Leu Ala
 85 90 95
 Glu Val Trp Met Asp Glu Phe Lys Asp Phe Phe Tyr Ile Ile Ser Pro
 100 105 110
 Gly Val Val Lys Val Asp Tyr Gly Asp Val Ser Val Arg Lys Thr Leu
 115 120 125
 Arg Glu Asn Leu Lys Cys Lys Pro Phe Ser Trp Tyr Leu Glu Asn Ile
 130 135 140
 Tyr Pro Asp Ser Gln Ile Pro Arg Arg Tyr Tyr Ser Leu Gly Glu Ile
 145 150 155 160
 Arg Asn Val Glu Thr Asn Gln Cys Leu Asp Asn Met Gly Arg Lys Glu
 165 170 175
 Asn Glu Lys Val Gly Ile Phe Asn Cys His Gly Met Gly Gly Asn Gln
 180 185 190
 Thr Gln Trp Thr Cys Asn His Val Lys Met Pro Pro Tyr Glu Arg Lys
 195 200 205
 Ser Val Met Gly Ile
 210

<210> 2278

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2278

Met Lys Asn Trp Arg Leu Ser Ser Trp Leu Trp Ser Gly Ala Ser Pro

1	5	10	15												
Gln	Pro	Trp	Arg	Ser	Ser	Lys	Ala	Lys	Pro	Arg	Pro	Glu	Ala	Pro	His
20	25	30													
Pro	Gly	Leu	Glu	Thr	Thr	Leu	Gln	Glu	Arg	Leu	Ala	Leu	Tyr	Gln	Thr
35	40	45													
Ala	Ile	Glu	Ser	Ala	Arg	Gln	Ala	Gly	Asp	Ser	Ala	Lys	Met	Arg	Arg
50	55	60													
Tyr	Asp	Arg	Gly	Leu	Lys	Thr	Leu	Glu	Asn	Leu	Leu	Ala	Ser	Ile	Arg
65	70	75	80												
Lys	Gly	Asn	Ala	Ile	Asp	Glu	Ala	Asp	Ile	Pro	Pro	Pro	Val	Ala	Ile
85	90	95													
Gly	Lys	Gly	Pro	Ala	Ser	Thr	Pro	Thr	Tyr	Ser	Pro	Ala	Pro	Thr	Gln
100	105	110													
Pro	Ala	Pro	Arg	Ile	Ala	Ser	Ala	Pro	Glu	Pro	Arg	Val	Thr	Leu	Glu
115	120	125													
Gly	Pro	Ser	Ala	Thr	Ala	Pro	Ala	Ser	Ser	Pro	Gly	Leu	Ala	Lys	Pro
130	135	140													
Gln	Met	Pro	Pro	Gly	Pro	Cys	Ser	Pro	Gly	Pro	Leu	Ala	Gln	Leu	Gln
145	150	155	160												
Ser	Arg	Gln	Arg	Asp	Tyr	Lys	Leu	Ala	Ala	Leu	His	Ala	Lys	Gln	Gln
165	170	175													
Gly	Asp	Thr	Thr	Ala	Ala	Ala	Arg	His	Phe	Arg	Val	Ala	Lys	Ser	Phe
180	185	190													
Asp	Ala	Val	Leu	Glu	Ala	Leu	Ser	Arg	Gly	Glu	Pro	Val	Asp	Leu	Ser
195	200	205													
Cys	Leu	Pro	Pro	Pro	Pro	Asp	Gln	Leu	Pro	Pro	Asp	Pro	Pro	Ser	Pro
210	215	220													
Pro	Ser	Gln	Pro	Pro	Thr	Pro	Ala	Thr	Ala	Pro	Ser	Thr	Thr	Glu	Val
225	230	235	240												

Pro Pro Pro Pro Arg Thr Leu Leu Glu Ala Leu Glu Gln Arg Met Glu

245

250

255

Arg Tyr Gln Val Ala Ala Ala Gln Ala Lys Ser Lys Gly Asp Gln Arg

260

265

270

Lys Ala Arg Met His Glu Arg Ile Val Lys Gln Tyr Gln Asp Ala Ile

275

280

285

Arg Ala His Lys Ala Gly Arg Ala Val Asp Val Ala Glu Leu Pro Val

290

295

300

Pro Pro Gly Phe Pro Pro Ile Gln Gly Leu Glu Ala Thr Lys Pro Thr

305

310

315

320

Gln Gln Ser Leu Val Gly Val Leu Glu Thr Ala Met Lys Leu Ala Asn

325

330

335

Gln Asp Glu Gly Pro Glu Asp Glu Glu Asp Glu Val Pro Lys Lys Val

340

345

350

<210> 2279

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2279

Met Ala Arg Lys Gly Ala Arg Arg Pro Arg Gln Gly Pro Gly Ser His

1

5

10

15

Lys Trp Leu Gln Pro Gly Ser Arg Arg Glu Lys Glu Arg Ile Pro Gln

20

25

30

Pro Pro Pro Pro Ala Arg Pro Pro Arg Asp Ala Ala Pro Arg Arg Val

35

40

45

Leu Val Pro Ala Val Arg Arg Val Pro Glu Ser Gly His Phe Ala Gly

50 55 60
 Arg Pro Trp Ala Pro Gln Cys His Pro Lys Gly Leu Arg Arg Pro Ser
 65 70 75 80
 Ala Glu Ser His Ser Val Ala Gln Ala Gly Val Gln Cys His Asp Leu
 85 90 95
 Gly Ser Leu Gln Pro Pro Pro Pro Ser Ser Gly Asp Ser Pro Ala Ser
 100 105 110
 Ala Ser Arg Val Ala Gly Ile Thr Ser Thr Val Pro Gly Thr Leu Ser
 115 120 125
 Ala Leu Asp Asp Cys Cys Leu Ile Thr Glu Leu Pro Tyr Lys Pro Pro
 130 135 140
 Ala Val Leu Tyr
 145

<210> 2280

<211> 571

<212> PRT

<213> Homo sapiens

<400> 2280

Met Ala Pro Ser Leu Arg His Ser Val Gln Gln Phe His His His Pro
 1 5 10 15
 Ser Thr Ala Leu His Gly Glu Ser Val Ala His Ser Pro Arg Phe Ser
 20 25 30
 Pro Asn Pro Pro Gln Gln Gly Ala Val Arg Pro Gln Thr Leu Asn Phe
 35 40 45
 Ser Ser Arg Ser Gln Thr Val Pro Ser Pro Thr Ile Asn Asn Ser Gly
 50 55 60

Gln Tyr Ser Arg Tyr Pro Tyr Ser Asn Leu Asn Gln Gly Leu Val Asn			
65	70	75	80
Asn Thr Gly Met Asn Gln Asn Leu Gly Leu Thr Asn Asn Thr Pro Met			
	85	90	95
Asn Gln Ser Val Pro Arg Tyr Pro Asn Ala Val Gly Phe Pro Ser Asn			
	100	105	110
Ser Gly Gln Gly Leu Met His Gln Gln Pro Ile His Pro Ser Gly Ser			
	115	120	125
Leu Asn Gln Met Asn Thr Gln Thr Met His Pro Ser Gln Pro Gln Gly			
	130	135	140
Thr Tyr Ala Ser Pro Pro Pro Met Ser Pro Met Lys Ala Met Ser Asn			
145	150	155	160
Pro Ala Gly Thr Pro Pro Pro Gln Val Arg Pro Gly Ser Ala Gly Ile			
	165	170	175
Pro Met Glu Val Gly Ser Tyr Pro Asn Ile Pro His Pro Gln Pro Ser			
	180	185	190
His Gln Pro Pro Gly Ala Met Gly Ile Gly Gln Arg Asn Met Gly Pro			
	195	200	205
Arg Asn Met Gln Gln Ser Arg Pro Phe Ile Gly Met Ser Ser Ala Pro			
	210	215	220
Arg Glu Leu Thr Gly His Met Arg Pro Asn Gly Cys Pro Gly Val Gly			
225	230	235	240
Leu Gly Asp Pro Gln Ala Ile Gln Glu Arg Leu Ile Pro Gly Gln Gln			
	245	250	255
His Pro Gly Gln Gln Pro Ser Phe Gln Gln Leu Pro Thr Cys Pro Pro			
	260	265	270
Leu Gln Pro His Pro Gly Leu His His Gln Ser Ser Pro Pro His Pro			
	275	280	285
His His Gln Pro Trp Ala Gln Leu His Pro Ser Pro Gln Asn Thr Pro			

290	295	300
Gln Lys Val Pro Val His Gln His Ser Pro Ser Glu Pro Phe Leu Glu		
305	310	315 320
Lys Pro Val Pro Asp Met Thr Gln Val Ser Gly Pro Asn Ala Gln Leu		
325	330	335
Val Lys Ser Asp Asp Tyr Leu Pro Ser Ile Glu Gln Gln Pro Gln Gln		
340	345	350
Lys Lys Lys Lys Lys Lys Asn Asn His Ile Val Ala Glu Asp Pro Ser		
355	360	365
Lys Gly Phe Gly Lys Asp Asp Phe Pro Gly Gly Val Asp Asn Gln Glu		
370	375	380
Leu Asn Arg Asn Ser Leu Asp Gly Ser Gln Glu Glu Lys Lys Lys Lys		
385	390	395 400
Lys Arg Ser Lys Ala Lys Lys Asp Pro Lys Glu Pro Lys Glu Pro Lys		
405	410	415
Glu Lys Lys Glu Pro Lys Glu Pro Lys Thr Pro Lys Ala Pro Lys Ile		
420	425	430
Pro Lys Glu Pro Lys Glu Lys Lys Ala Lys Thr Ala Thr Pro Lys Pro		
435	440	445
Lys Ser Ser Lys Lys Ser Ser Asn Lys Lys Pro Asp Ser Glu Ala Ser		
450	455	460
Ala Leu Lys Lys Lys Val Asn Lys Gly Lys Thr Glu Gly Pro Glu Asn		
465	470	475 480
Ser Asp Leu Asp Lys Thr Pro Pro Pro Ser Pro Pro Pro Glu Glu Asp		
485	490	495
Glu Asp Pro Gly Val Gln Lys Arg Arg Ser Ser Arg Gln Val Lys Arg		
500	505	510
Lys Arg Tyr Thr Glu Asp Leu Glu Phe Lys Ile Ser Asp Glu Glu Ala		
515	520	525

Asp Asp Ala Asp Ala Ala Gly Arg Asp Ser Pro Ser Asn Thr Ser Gln
 530 535 540
 Ser Glu Gln Gln Glu Ser Val Asp Ala Glu Gly Pro Val Val Glu Lys
 545 550 555 560
 Ile Met Ser Ser Arg Ser Val Lys Lys Lys Lys
 565 570

<210> 2281

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2281

Met Phe Ile Met Leu Phe Phe Leu Thr Ile Ser His Phe Leu Phe Pro
 1 5 10 15
 Ser Cys Pro Phe Phe Phe Phe Phe Phe Phe Glu Ser Glu Phe His
 20 25 30
 Ser Cys Cys Pro Gly Trp Ile Ser Val Ala Arg Ser Arg Leu Thr Glu
 35 40 45
 Thr Ser Ala Ser Arg Ile Gln Ala Ile Leu Leu Ser Arg Pro Ser Arg
 50 55 60
 Trp Leu Gly Leu Gln Ala Cys Ala Thr Met Pro Gly Tyr Leu Val Val
 65 70 75 80
 Val Val Val Val Val Leu Leu Val Glu Thr Met Phe Leu His Phe Gly
 85 90 95
 Gln Ala Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Ala Ala Ser Ala
 100 105 110
 Ser Gln Ser Thr Gly Ile Thr Arg Met Arg Asp Arg Ala Gln Pro Pro

115 120 125
Leu Ser Ile Tyr Ile Leu Gln Leu Leu Lys Leu
130 135

<210> 2282

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2282

Met Leu Trp Glu Trp Gly Val Cys Phe Gly Val Ser Asp Lys Phe Pro
1 5 10 15
Gly Asp Cys Ile Val Gln Pro Gln Ser Arg Thr Ser Thr Pro Gly Ser
20 25 30
Leu Leu Ser Pro Thr Val Cys Tyr Gly Ala Leu Ser Val Thr Ser Leu
35 40 45
Ile Ala Val Thr Lys Asp Arg Thr Gln Thr Ile Trp Val Thr Leu Gly
50 55 60
Ala Asp Glu Gln Val Pro Gly Arg Lys Gly Leu Gly Ser Glu Asp Leu
65 70 75 80
Gly Cys Asp Leu Leu Gln Ile Val Ile Gly Leu Ala Leu Ser Thr Trp
85 90 95
Glu Gln Arg Glu Leu Glu Ala Ser Pro Ala Cys Leu Gly Trp Lys Ala
100 105 110
Gly Phe Pro Phe Ala Ala Gly Trp Leu Pro Phe Leu Thr Leu Ser Leu
115 120 125
Gln Ser Tyr Asn Thr
130

<210> 2283

<211> 453

<212> PRT

<213> Homo sapiens

<400> 2283

Met Leu His Arg Asp Ser Thr Ile Ser Asn Glu Ser Ser Gln Ser Cys

1 5 10 15

Ser Ser Gly Arg Gln Asn Ile Arg Leu His Ser Asp Ser Ser Ser Ser

20 25 30

Thr Gln Val Phe Glu Ser Val Asp Glu Val Glu Gln Val Glu Ala Glu

35 40 45

Gly Arg Leu Glu Glu Lys Gln Pro Lys Ile Pro Asn Gly Asn Leu Val

50 55 60

Asn Gly Thr Cys Ser Pro Asp Ser Gly His Pro Ser Ser His Asn Phe

65 70 75 80

Ser Ser Gly Leu Ser Glu His Ser Glu Pro Ser Leu Ser Thr Glu Asp

85 90 95

Ser Val Leu Asp Ala Gln Arg Asn Thr Pro Thr Val Leu Arg Pro Arg

100 105 110

Asp Gly Ser Val Asp Asp Arg Gln Ser Ser Glu Ala Thr Thr Ser Gln

115 120 125

Asp Glu Ala Pro Arg Glu Glu Leu Ala Val Gln Asp Ser Leu Glu Ser

130 135 140

Asp Leu Leu Ala Asn Glu Ser Met Asp Glu Phe Met Ser Ile Thr Gly

145 150 155 160

Ser Leu Asp Met Ala Leu Pro Glu Lys Asp Asp Val Val Met Glu Gly

165	170	175
Trp Arg Ser Ser Glu Thr Glu Lys His Gly Gln Ala Asp Ser Glu Asp		
180	185	190
Asn Leu Ser Glu Glu Pro Glu Met Glu Ser Leu Phe Pro Ala Leu Ala		
195	200	205
Ser Leu Ala Val Thr Thr Ser Ala Asn Glu Val Ser Pro Val Ser Ser		
210	215	220
Ser Gly Val Thr Tyr Ser Pro Glu Leu Leu Asp Leu Tyr Thr Val Asn		
225	230	235
240		
Leu His Arg Ile Glu Lys Asp Val Gln Arg Cys Asp Arg Asn Tyr Trp		
245	250	255
Tyr Phe Thr Pro Ala Asn Leu Glu Lys Leu Arg Asn Ile Met Cys Ser		
260	265	270
Tyr Ile Trp Gln His Ile Glu Ile Gly Tyr Val Gln Gly Met Cys Asp		
275	280	285
Leu Leu Ala Pro Leu Leu Val Ile Leu Asp Asp Glu Ala Leu Ala Phe		
290	295	300
Ser Cys Phe Thr Glu Leu Met Lys Arg Met Asn Gln Asn Phe Pro His		
305	310	315
320		
Gly Gly Ala Met Asp Thr His Phe Ala Asn Met Arg Ser Leu Ile Gln		
325	330	335
Ile Leu Asp Ser Glu Leu Phe Glu Leu Met His Gln Asn Gly Asp Tyr		
340	345	350
Thr His Phe Tyr Phe Cys Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg		
355	360	365
Glu Leu Val Tyr Asp Asp Val Phe Leu Val Trp Glu Thr Ile Trp Ala		
370	375	380
Ala Lys His Val Ser Ser Ala His Tyr Val Leu Phe Ile Ala Leu Ala		
385	390	395
400		

Leu Val Glu Val Tyr Arg Asp Ile Ile Leu Glu Asn Asn Met Asp Phe
 405 410 415
 Thr Asp Ile Ile Lys Phe Phe Asn Glu Met Ala Glu Arg His Asn Thr
 420 425 430
 Lys Gln Val Leu Lys Leu Ala Arg Asp Leu Val Tyr Lys Val Gln Thr
 435 440 445
 Leu Ile Glu Asn Lys
 450

<210> 2284

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2284

Met Ser Arg Gln Gly Thr Gly Ser Ser Ala Gln Gly Leu Pro Val Leu
 1 5 10 15
 Leu Gly Cys Leu Pro Thr Ala Asp Ser Val Pro Leu Asp Cys Leu Leu
 20 25 30
 Gln Lys Phe Leu Leu Leu Met Ala Ser Thr Ser Ala Cys Tyr Lys Leu
 35 40 45
 Phe Arg Glu Lys Gln Lys Asp Gly His Gly Glu Ala Ile Met Phe Lys
 50 55 60
 Gly Leu Gly Gly Met Ser Ser Lys Arg Ile Thr Ile Asn Lys Ile Leu
 65 70 75 80
 Ser Asn Glu Ser Leu Val Gln Asp Asn Leu Tyr Phe Gln Arg Cys Leu
 85 90 95
 Asp Trp Asn Arg Asp Ile Leu Lys Lys Glu Leu Gly Leu Thr Glu Gln

100 105 110
Asp Ile Ile Asp Leu Pro Ala Leu Phe Lys Met Asp Glu Asp His Arg
115 120 125
Ala Arg Ala Phe Phe Pro Asn Met Val Asn Met Ile Val Leu Asp Lys
130 135 140
Asp Leu Gly Ile Pro Lys Pro Phe Gly Pro Gln Val Glu Glu Glu Cys
145 150 155 160
Cys Leu Glu Met His Val Arg Gly Leu Leu Glu Pro Leu Gly Leu Glu
165 170 175
Cys Thr Phe Ile Asp Asp Ile Ser Ala Tyr His Lys Phe Leu Gly Glu
180 185 190
Val His Cys Gly Thr Asn Val Arg Arg Lys Pro Phe Thr Phe Lys Trp
195 200 205
Trp His Met Val Pro
210

<210> 2285

<211> 191

<212> PRT

<213> Homo sapiens

<400> 2285

Met Ala Glu Asn Lys Gly Leu Gly Tyr Pro Asp Ala Arg Phe Ser Val
1 5 10 15
Leu Val Ser Ser Gln Leu Ala Ile Pro Met Pro Leu Leu Ser Ser Val
20 25 30
Gly Gly His Trp Thr Trp Thr Asp Pro Trp Asp Arg Arg Ile Gln Gly
35 40 45

Val Leu Phe Ser Phe Asp Phe Phe Tyr Leu Phe Ser Ala Arg Lys Asp
 50 55 60
 Thr Asp Leu Cys Ser Trp Leu Ser Ser Lys Asn His Leu Ser Phe Val
 65 70 75 80
 Pro Leu Ser Cys Lys Arg Glu Val His Phe Ile Cys Leu Phe Cys Lys
 85 90 95
 Thr Leu Gly Val Cys His Gly His Ala Leu Met Met Ser Thr Cys Val
 100 105 110
 Arg Pro Leu Pro Pro Trp Ser Ala Cys Met Val Leu Gln Pro Glu Thr
 115 120 125
 Ala Leu Gly Glu Ile Arg Gly Ser Leu Leu Val Gly Gly Glu His Leu
 130 135 140
 Pro Leu His Ala Gly Arg His Leu Met Lys Pro Gln Arg Pro Gly Ser
 145 150 155 160
 Pro Cys Thr Trp Lys Glu Ser Leu Ser Ser Met Trp Gly Glu Pro Arg
 165 170 175
 Trp Pro Cys Gly Ile His Val Phe Pro Pro Pro Ala Ser Pro Ala
 180 185 190

<210> 2286

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2286

Met Ala Lys Ala Asp Pro Thr Cys Asn Ser Thr Phe Leu His Leu Asp
 1 5 10 15
 Thr Gln Gly Cys Tyr Ser Gly Pro Cys Pro Glu Glu Cys Val Trp Ser

20	25	30
Ser Trp Ser Ser Trp Thr Arg Cys Ser Cys Arg Val Leu Val Gln Gln		
35	40	45
Arg Tyr Arg His Gln Gly Pro Ala Ser Arg Gly Ala Arg Ala Gly Ala		
50	55	60
Pro Cys Thr Arg Leu Asp Gly His Phe Arg Pro Cys Leu Ile Ser Asn		
65	70	75
Cys Ser Glu Asp Ser Cys Thr Pro Pro Phe Glu Phe His Ala Cys Gly		
85	90	95
Ser Pro Cys Ala Gly Leu Cys Ala Thr His Leu Ser His Gln Leu Cys		
100	105	110
Gln Asp Leu Pro Pro Cys Gln Pro Gly Cys Tyr Cys Pro Lys Gly Leu		
115	120	125
Leu Glu Gln Ala Gly Gly Cys Ile Pro Pro Glu Glu Cys Asn Cys Trp		
130	135	140
His Thr Ser Ala Ala Gly Ala Gly Met Thr Leu Ala Pro Gly Asp Arg		
145	150	155
Leu Gln Leu Gly Cys Lys Glu Cys Glu Cys Gln Arg Gly Glu Leu His		
165	170	175
Cys Thr Ser Gln Gly Cys Gln Gly Leu Leu Pro Leu Ser Glu Trp Ser		
180	185	190
Glu Trp Ser Pro Cys Gly Pro Cys Leu Pro Pro Ser Ala Leu Ala Pro		
195	200	205
Ala Ser Arg Thr Ala Leu Glu Glu His Trp Leu Arg Asp Pro Thr Gly		
210	215	220
Leu Ser Pro Thr Leu Ala Pro Leu Leu Ala Ser Glu Gln His Arg His		
225	230	235
Arg Leu Cys Leu Asp Pro Ala Thr Gly Arg Pro Trp Thr Gly Ala Pro		
245	250	255

His Leu Cys Thr Ala Pro Leu Ser Gln Gln Arg Leu Cys Pro Asp Pro
 260 265 270
 Gly Ala Cys Pro Asp Ser Cys Gln Trp Ser Leu Trp Gly Pro Trp Ser
 275 280 285
 Pro Cys Gln Val Pro Cys Ser Gly Gly Phe Arg Leu Arg Trp Arg Glu
 290 295 300
 Ala Glu Ala Leu Cys Gly Gly Gly Phe Arg Glu Pro Trp Ala Gln Asp
 305 310 315 320
 Arg Lys Leu Gln Arg Arg Ala Leu Pro Arg
 325 330

<210> 2287

<211> 250

<212> PRT

<213> Homo sapiens

<400> 2287

Met Leu Val Arg Ser Val Gly Leu Phe Leu Val Gly Leu Leu Leu Gly
 1 5 10 15
 Leu Leu Leu Ala Ala Ala Ala Leu Leu Gly Ser Ala Pro Tyr Tyr Gln
 20 25 30
 Pro Gly Ser Val Trp Gly Pro Leu Gly Leu Leu Leu Gly Gly Gly Leu
 35 40 45
 Leu Cys Ala Leu Leu Thr Leu Arg Trp Pro Arg Pro Leu Thr Thr Leu
 50 55 60
 Ala Thr Ala Val Thr Gly Ala Ala Leu Ile Ala Thr Ala Ala Asp Tyr
 65 70 75 80
 Phe Ala Glu Leu Leu Leu Leu Gly Arg Tyr Val Val Glu Arg Leu Arg

	85	90	95
Ala Ala Pro Val Pro Pro Leu Cys Trp Arg Ser Trp Ala Leu Leu Ala			
100	105	110	
Leu Trp Pro Leu Leu Ser Leu Met Gly Val Leu Val Gln Trp Arg Val			
115	120	125	
Thr Ala Glu Gly Asp Ser His Thr Glu Val Val Ile Ser Arg Gln Arg			
130	135	140	
Arg Arg Val Gln Leu Met Arg Ile Arg Gln Gln Glu Asp Arg Lys Glu			
145	150	155	160
Lys Arg Arg Lys Lys Arg Pro Pro Arg Ala Pro Leu Arg Gly Pro Arg			
165	170	175	
Ala Pro Pro Arg Pro Gly Pro Pro Asp Pro Ala Tyr Arg Arg Arg Pro			
180	185	190	
Val Pro Ile Lys Arg Phe Asn Gly Asp Val Leu Ser Pro Ser Tyr Ile			
195	200	205	
Gln Ser Phe Arg Asp Arg Gln Thr Gly Ser Ser Leu Ser Ser Phe Met			
210	215	220	
Ala Ser Pro Thr Asp Ala Asp Tyr Glu Tyr Gly Ser Arg Gly Pro Leu			
225	230	235	240
Thr Ala Cys Ser Gly Pro Pro Val Arg Val			
245	250		

<210> 2288

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2288

Met His Gly Leu Arg Glu Gln Phe Ser His Pro Arg Trp Pro Ala Ser
 1 5 10 15
 Leu Cys Leu Cys Phe Pro Ala Leu Thr Pro Asp Val Val His Gln Ser
 20 25 30
 Leu Phe Met Ser Ala Leu Ser Ala His Pro Asp Arg Ser Leu Ser Val
 35 40 45
 Cys Trp Glu Gln His Cys Lys Leu Leu Pro Gly Val Ala Gly Ile Ser
 50 55 60
 Ala Ser Thr Val Ala Lys Trp Thr Ile Asp Glu Val Phe Gly Phe Val
 65 70 75 80
 Gln Thr Leu Thr Gly Cys Glu Asp Gln Ala Arg Leu Phe Lys Asp Glu
 85 90 95
 Ala Arg Ile Val Arg Val Thr His Val Ser Gly Lys Thr Leu Val Trp
 100 105 110
 Thr Val Ala Gln Leu Gly Asp Leu Val Cys Ser Asp His Leu Gln Glu
 115 120 125
 Gly Lys Gly Ile Leu Glu Thr Gly Val His Ser Leu Leu Cys Ser Leu
 130 135 140
 Pro Thr His Leu Leu Ala Lys Leu Ser Phe Ala Ser Asp Ser Gln Tyr
 145 150 155 160

<210> 2289

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2289

Met Ala Ala Pro Leu Gln Glu Arg Gln Leu Gly Cys Leu Arg Pro Asp

1 5 10 15
 Gly Gln Arg Leu Pro Trp Pro Arg Val Val Thr Val Leu Arg Pro Leu
 20 25 30
 Arg Ala Ala Gln Ser Gly Lys Lys Ser Ala Glu Pro Gly Lys Phe Leu
 35 40 45
 Ser Val Ser Ser Gly Leu Glu Gly Ala Gly Ile Asp Arg Ala Glu Ala
 50 55 60
 Ala Arg Ala Trp Cys Cys Phe Gly Ile Gly Gly Arg Arg Ala Glu Pro
 65 70 75 80
 Pro Ala Pro Trp Val Trp Phe His Pro Trp Pro Val Pro Gly Thr Arg
 85 90 95
 Gln Leu Leu Leu Cys Ala Tyr Trp Cys His His Val Ile
 100 105

<210> 2290

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2290

Met Ala Arg Glu Glu Cys Lys Ala Leu Leu Asp Gly Leu Asn Lys Thr
 1 5 10 15
 Thr Ala Cys Tyr His His Leu Val Leu Thr Val Gly Gly Ser Ala Asp
 20 25 30
 Ser Gln Asn Leu Arg Gln Glu Leu Gln Lys Thr Arg Gln Lys Ala Gln
 35 40 45
 Glu Leu Ala Val Ser Thr Cys Ala Arg Leu Thr Ala Val Leu Arg Asp
 50 55 60

Arg Gly Leu Ala Ala Asp Glu Arg Ala Glu Phe Glu Arg Leu Trp Val
 65 70 75 80
 Ala Phe Ser Gly Cys Leu Asp Leu Leu Glu Ala Asp Met Arg Arg Ser
 85 90 95
 Leu Glu Leu Gly Ala Ala Phe Pro Leu His Ala Pro Arg Arg Pro Leu
 100 105 110
 Val Arg Thr Gly Val Ala Gly Ala Ser Ser Gly Val Ala Ala Arg Ala
 115 120 125
 Leu Ser Thr Arg Ser Leu Arg Leu Glu Ala Glu Gly Asp Phe Asp Val
 130 135 140
 Ala Asp Leu Arg Glu Leu Glu Arg Glu Val Leu Gln Val Gly Glu Met
 145 150 155 160
 Ile Asp Asn Met Glu Met Lys Val Asn Val Pro Arg Trp Thr Val Gln
 165 170 175
 Ala Arg Gln Ala Ala Gly Ala Glu Leu Leu Ser Thr Val Ser Ala Gly
 180 185 190
 Pro Ser Ser Val Val Ser Leu Gln Glu Arg Gly Gly Gly Cys Asp Pro
 195 200 205
 Arg Lys Ala Leu Ala Ala Ile Leu Phe Gly Ala Val Leu Leu Ala Ala
 210 215 220
 Val Ala Leu Ala Val Cys Val Ala Lys Leu Ser
 225 230 235

<210> 2291

<211> 628

<212> PRT

<213> Homo sapiens

<400> 2291

Met	Leu	Ser	Cys	Leu	Lys	Glu	Glu	Met	Pro	Pro	Gln	Glu	Leu	Thr	Arg
1				5					10					15	
Arg	Leu	Ala	Thr	Val	Ile	Thr	His	Val	Asp	Glu	Ile	Met	Gln	Gln	Glu
				20				25						30	
Val	Arg	Pro	Leu	Met	Ala	Val	Glu	Ile	Ile	Glu	Gln	Leu	His	Arg	Gln
				35				40						45	
Phe	Ala	Ile	Leu	Ser	Gly	Gly	Arg	Gly	Glu	Asp	Gly	Ala	Pro	Ile	Ile
				50				55						60	
Thr	Phe	Pro	Glu	Phe	Ser	Gly	Phe	Lys	His	Ile	Pro	Asp	Glu	Asp	Phe
				65				70						75	
Leu	Asn	Val	Met	Thr	Tyr	Leu	Thr	Ser	Ile	Pro	Ser	Val	Glu	Ala	Ala
				85						90				95	
Ser	Ile	Gly	Phe	Ile	Val	Val	Ile	Asp	Arg	Arg	Arg	Asp	Lys	Trp	Ser
				100						105				110	
Ser	Val	Lys	Ala	Ser	Leu	Thr	Arg	Ile	Ala	Val	Ala	Phe	Pro	Gly	Asn
				115						120				125	
Leu	Gln	Leu	Ile	Phe	Ile	Leu	Arg	Pro	Ser	Arg	Phe	Ile	Gln	Arg	Thr
				130						135				140	
Phe	Thr	Asp	Ile	Gly	Ile	Lys	Tyr	Tyr	Arg	Asn	Glu	Phe	Lys	Thr	Lys
				145						150				155	
Val	Pro	Ile	Ile	Met	Val	Asn	Ser	Val	Ser	Asp	Leu	His	Gly	Tyr	Ile
				165						170				175	
Asp	Lys	Ser	Gln	Leu	Thr	Arg	Glu	Leu	Gly	Gly	Thr	Leu	Glu	Tyr	Arg
				180						185				190	
His	Gly	Gln	Trp	Val	Asn	His	Arg	Thr	Ala	Ile	Glu	Asn	Phe	Ala	Leu
				195						200				205	
Thr	Leu	Lys	Thr	Thr	Ala	Gln	Met	Leu	Gln	Thr	Phe	Gly	Ser	Cys	Leu
				210						215				220	

Ala Thr Ala Glu Leu Pro Arg Ser Met Leu Ser Thr Glu Asp Leu Leu
225 230 235 240
Met Ser His Thr Arg Gln Arg Asp Lys Leu Gln Asp Glu Leu Lys Leu
245 250 255
Leu Gly Lys Gln Gly Thr Thr Leu Leu Ser Cys Ile Gln Glu Pro Ala
260 265 270
Thr Lys Cys Pro Asn Ser Lys Leu Asn Leu Asn Gln Leu Glu Asn Val
275 280 285
Thr Thr Met Glu Arg Leu Leu Val Gln Leu Asp Glu Thr Glu Lys Ala
290 295 300
Phe Ser His Phe Trp Ser Glu His His Leu Lys Leu Asn Gln Cys Leu
305 310 315 320
Gln Leu Gln His Phe Glu His Asp Phe Cys Lys Ala Lys Leu Ala Leu
325 330 335
Asp Asn Leu Leu Glu Glu Gln Ala Glu Phe Thr Gly Ile Gly Asp Ser
340 345 350
Val Met His Val Glu Gln Leu Leu Lys Glu His Lys Lys Leu Glu Glu
355 360 365
Lys Ser Gln Glu Pro Leu Glu Lys Ala Gln Leu Leu Ala Leu Val Gly
370 375 380
Asp Gln Leu Ile Gln Ser His His Tyr Ala Ala Asp Ala Ile Arg Pro
385 390 395 400
Arg Cys Val Glu Leu Arg His Leu Cys Asp Asp Phe Ile Asn Gly Asn
405 410 415
Lys Lys Lys Trp Asp Ile Leu Gly Lys Ser Leu Glu Phe His Arg Gln
420 425 430
Leu Asp Lys Val Ser Gln Trp Cys Glu Ala Gly Ile Tyr Leu Leu Ala
435 440 445
Ser Gln Ala Val Asp Lys Cys Gln Ser Arg Glu Gly Val Asp Ile Ala

450 455 460
Leu Asn Asp Ile Ala Thr Phe Leu Gly Thr Val Lys Glu Tyr Pro Leu
465 470 475 480
Leu Ser Pro Lys Glu Phe Tyr Asn Glu Phe Glu Leu Leu Leu Thr Leu
 485 490 495
Asp Ala Lys Ala Lys Ala Gln Lys Val Leu Gln Arg Leu Asp Asp Val
 500 505 510
Gln Glu Ile Phe His Lys Arg Gln Val Ser Leu Met Lys Leu Ala Ala
 515 520 525
Lys Gln Thr Arg Pro Val Gln Pro Val Ala Pro His Pro Glu Ser Ser
 530 535 540
Pro Lys Trp Val Ser Ser Lys Thr Ser Gln Pro Ser Thr Ser Val Pro
545 550 555 560
Leu Ala Arg Pro Leu Arg Thr Ser Glu Glu Pro Tyr Thr Glu Thr Glu
 565 570 575
Leu Asn Ser Arg Gly Lys Glu Asp Asp Glu Thr Lys Phe Glu Val Lys
 580 585 590
Ser Glu Glu Ile Phe Glu Ser His His Glu Arg Gly Asn Pro Glu Leu
 595 600 605
Glu Gln Gln Ala Arg Leu Gly Asp Leu Ser Pro Arg Arg Tyr Ser Ser
 610 615 620
Gln Tyr Phe Lys
625

<210> 2292

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2292

Met Ala Phe Leu Met Lys Ser Met Ile Ser Asn Gln Val Lys Asn Leu
 1 5 10 15
 Gly Phe Gly Gly Gly Ser Glu Glu Asn Lys Glu Glu Gly Gly Ala Ser
 20 25 30
 Asp Pro Ala Ala Ala Gln Gly Met Thr Arg Glu Glu Tyr Glu Glu Tyr
 35 40 45
 Gln Lys Gln Met Ile Glu Glu Lys Met Glu Arg Asp Ala Ala Phe Thr
 50 55 60
 Gln Lys Lys Ala Glu Arg Ala Cys Leu Arg Val His Leu Arg Glu Lys
 65 70 75 80
 Tyr Arg Leu Pro Lys Ser Glu Met Asp Glu Asn Gln Ile Gln Met Ala
 85 90 95
 Gly Asp Asp Val Asp Leu Pro Glu Asp Leu Arg Lys Met Val Asp Glu
 100 105 110
 Asp Gln Glu Glu Glu Glu Asp Lys Asp Ser Ile Leu Gly Gln Ile Gln
 115 120 125
 Asn Leu Gln Asn Met Asp Leu Asp Thr Ile Lys Glu Lys Ala Gln Ala
 130 135 140
 Thr Phe Thr Glu Ile Lys Gln Thr Ala Glu Gln Lys Cys Ser Val Met
 145 150 155 160

<210> 2293

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2293

Met Glu Gly Cys Pro Pro Gly Leu Trp Leu Ala Leu Gly Val Arg Val
 1 5 10 15
 Ser Gly Ala Pro Pro Ala Val Ser Pro Arg Gln Ser His Gly Gly Ala
 20 25 30
 Gly Ala Trp Thr Leu Ser His Pro Gly Glu Pro Leu Ser His Arg Leu
 35 40 45
 Pro Gly Leu Gln Pro Pro His Ala Ser Pro Arg Leu Val Leu Gly Pro
 50 55 60
 Gly Pro Pro Leu Ser Lys Ala Asp Phe Pro Ser Phe His Asp Lys Asp
 65 70 75 80
 Ala Gln Pro Arg Phe Pro Gly Ala Leu Ala Arg Glu Ile Ala Gly Cys
 85 90 95
 Ile Pro Thr Pro Ala Gly Thr Cys Ala Pro Pro Gly Gln Gly Leu Pro
 100 105 110
 Val Pro Phe Arg Gly Ser Pro Ala Ala Ser Thr Gly Arg Lys Arg Arg
 115 120 125
 Ser Ala Glu Arg Thr Asn Gly Ala Asp Pro Arg Arg Leu Gly Ala Gly
 130 135 140
 Arg Gly Gly Ala Glu Pro Pro Arg Leu Gln Leu Ala Gly Thr Arg Gly
 145 150 155 160
 Arg Ala Ala Gly Leu Gly Gly Ala His Ser Ala Thr Asp Arg Pro Arg
 165 170 175
 Arg Leu Cys Arg Pro Leu Pro Val Ser Arg Gly Gly Ser Arg Gln Glu
 180 185 190
 Ala Glu Gly Thr Pro Pro Ala Pro Gly Gln Ala Ala Arg Ala Ala Asp
 195 200 205
 Pro Ser Arg Glu Gly Pro Trp Ala Asp Glu Pro Arg Val Pro Gln Pro
 210 215 220

Trp Ser Arg Thr Thr Arg Ser Arg Arg

225

230

<210> 2294

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2294

Met Ser Ser Leu Ala Tyr Gly Thr Leu Gly Asp Leu Ser Gln Tyr Lys

1

5

10

15

Glu Val Arg Leu Ala Ser Trp Lys Ser Glu Pro Gln Gly Ala Ser Phe

20

25

30

Leu Leu Cys Arg Val Gln Ser Gly Pro Gly Ser Gly Cys Ser Ala Leu

35

40

45

Val Phe Cys Gly Ser Arg Cys Pro Leu Leu Phe Val Ser Gly Asn Met

50

55

60

Ala Ser Gly Val Ala Val Ser Asp Gly Val Ile Lys Val Phe Asn Asp

65

70

75

80

Met Lys Val Arg Lys Ser Ser Thr Pro Glu Glu Val Lys Lys Arg Lys

85

90

95

Lys Ala Val Leu Phe Cys Leu Ser Glu Asp Lys Lys Asn Ile Ile Leu

100

105

110

Glu Glu Gly Lys Glu Ile Leu Val Gly Asp Val Gly Gln Thr Val Asp

115

120

125

Asp Pro Tyr Ala Thr Phe Val Lys Met Leu Pro Asp Lys Asp Cys Arg

130

135

140

Tyr Ala Leu Tyr Asp Ala Thr Tyr Glu Thr Lys Glu Ser Lys Lys Glu

145 150 155 160
Asp Leu Val Phe Ile Phe Trp Ala Pro Glu Ser Ala Pro Leu Lys Ser
 165 170 175
Lys Met Ile Tyr Ala Ser Ser Lys Asp Ala Ile Lys Lys Lys Leu Thr
 180 185 190
Gly Ile Lys His Glu Leu Gln Ala Asn Cys Tyr Glu Glu Val Lys Asp
 195 200 205
Arg Cys Thr Leu Ala Glu Lys Leu Gly Gly Ser Ala Val Ile Ser Leu
 210 215 220
Glu Gly Lys Pro Leu
225

<210> 2295

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2295

Met Val Gly Ala Gly Asp Asp Gly Ala Pro Gly Val Gly Met Arg Lys
1 5 10 15
Glu Pro Arg Asn Gly Tyr Ile Leu Glu Thr Glu Leu Thr Gly Leu Gly
 20 25 30
Ser Glu Leu Asn Leu Trp Glu Glu Gly Glu Ile Glu Ala Gln Leu Ala
 35 40 45
Phe Arg Gly Asp Val Ala Asn Lys Val Pro Gly Gly Ile Val Tyr Pro
 50 55 60
His Glu Gly Cys Arg Gly Lys Ser Arg Val Ser Arg Arg Val Glu Met
65 70 75 80

Ser Gly Asp Leu Leu Gly His Ile Met Ile Glu Lys Val Gly Leu Gly
 85 90 95
 Arg Gly Trp Trp Leu Met Ser Val Ile Pro Ala Leu Trp Glu Ala Glu
 100 105 110
 Val Asp His Leu Arg Ser Gly Val Gly Asp Gln Pro Gly Gln His Gly
 115 120 125
 Glu Thr Pro Ser Leu Leu Lys Ile Gln Asn
 130 135

<210> 2296

<211> 225

<212> PRT

<213> Homo sapiens

<400> 2296

Met Thr Cys Asn Ser Arg Trp Trp Ile Cys Ser Lys Ala Ser Ile Pro
 1 5 10 15
 Thr Pro Ser Lys Gly Gln Val Ser Ser Pro Ala Ser Glu Ile Arg Leu
 20 25 30
 Trp Asp Pro Cys Leu Gly Gly Gly Leu His Ala Pro Ala Thr Ser Ala
 35 40 45
 Gly Ala Asp Ser Arg Thr Pro Trp His Phe Leu Arg Thr Arg Ala Trp
 50 55 60
 Asp Gly Pro Ser Ala Pro Trp Tyr Ala Leu Pro Ser Phe Gln Leu Pro
 65 70 75 80
 Cys Pro Leu Thr Leu Gly Ser Pro Pro Pro His Gln Cys Arg Val Leu
 85 90 95
 Val Pro Thr Ser Ser Phe Leu Gln Pro Gln Thr Ala Ser Gly Ser Ser

100 105 110
 Cys Pro Ser Pro Ser Gly Thr Pro Ala Pro Gly Cys Pro Leu Ser Leu
 115 120 125
 Pro Pro Met Pro Arg Ala Pro Pro Ala Ser Ala Gly Gln Ala Phe Arg
 130 135 140
 Thr Leu Pro Pro Thr Gln Phe Tyr Asn Pro Ala Pro Ser Pro Gly Asn
 145 150 155 160
 Pro Thr His Gln Pro Arg Pro Ala Pro Pro Pro Phe Pro Gly Gly Ser
 165 170 175
 Pro Gly Met Leu Arg Val Gly Gly Gly Ala Arg Leu Asp Ala Ser Cys
 180 185 190
 Gly Ser Pro Leu Gln Thr Trp Leu Ala Pro Ala Ala Thr Glu Thr Thr
 195 200 205
 Met Ala Lys Asn Leu Ile Gly Ser Gln Gly Leu Thr Arg Gly Gly Lys
 210 215 220
 Gln
 225

<210> 2297

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2297

Met Trp Pro Gly Asn Ala Trp Arg Ala Ala Leu Phe Trp Val Pro Arg
 1 5 10 15
 Gly Arg Arg Ala Gln Ser Ala Leu Ala Gln Leu Arg Gly Ile Leu Glu
 20 25 30

Gly Glu Leu Glu Gly Ile Arg Gly Ala Gly Thr Trp Lys Ser Glu Arg
 35 40 45
 Val Ile Thr Ser Arg Gln Gly Pro His Ile Arg Val Asp Gly Val Ser
 50 55 60
 Gly Gly Pro Gly Thr Val Ile Phe Pro Gly Leu Pro Ser Pro His Leu
 65 70 75 80
 Ser Cys Cys Ile His Leu Leu Ser Phe Thr Ser Gly Ile Leu Asn Phe
 85 90 95
 Cys Ala Asn Asn Tyr Leu Gly Leu Ser Ser His Pro Glu Val Ile Gln
 100 105 110
 Ala Gly Leu Gln Ala Leu Glu Glu Phe Gly Ala Gly Leu Ser Ser Val
 115 120 125
 Arg Phe Ile Cys Gly Thr Gln Ser Ile His Lys Asn Leu Glu Ala Lys
 130 135 140
 Ile Ala Arg Phe His Gln Arg Glu Asp Ala Ile Leu Tyr Pro Ser Cys
 145 150 155 160
 Tyr Asp Ala Asn Ala Gly Leu Phe Glu Ala Leu Leu Thr Pro Glu Asp
 165 170 175
 Ala Val Leu Ser Asp Glu Leu Asn His Ala Ser Ile Ile Asp Gly Ile
 180 185 190
 Arg Leu Cys Lys Ala His Lys Tyr Arg Tyr Arg His Leu Asp Met Ala
 195 200 205
 Asp Leu Glu Ala Lys Leu Gln Glu Ala Gln Lys His Arg Leu Arg Leu
 210 215 220
 Val Ala Thr Asp Gly Ala Phe Phe His Gly Trp Arg His Arg Thr Pro
 225 230 235 240
 Ala Gly Asp Leu Leu Pro Arg Leu
 245

<210> 2298

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2298

Met Gly Ser Ala Leu Arg Gly Leu Gly Ser Ala Thr Phe Ser Ser Ser

1 5 10 15

Pro Val Thr His Ser Ser Arg Val Gly Gly Val Leu Pro Ala Pro Pro

20 25 30

Arg Gly Leu Gly Ile Ser Pro Ser Pro Cys Pro Gly Asp Ser Leu Ala

35 40 45

Leu Ser Arg Thr Ala Ser Leu Leu Gly Leu Ser Leu Gly Thr Gln Trp

50 55 60

Thr Pro Lys Ser Arg Pro Ala Pro Thr Thr Gly Pro Ala Ser Leu Cys

65 70 75 80

Leu Pro Gln Leu Ala Trp Val Leu Ala Trp Val Arg Ile Trp Lys Leu

85 90 95

Leu Ala Gly Leu Asn Gln Ala Leu Leu Ser Ser Ser Arg Ala Leu Ser

100 105 110

His Arg Arg Gln Arg Pro Ala Ala Ser Arg Pro His Cys Gln Gln Cys

115 120 125

Pro Trp Pro Ser Glu Pro Arg Arg Ser Ser Thr Pro Ser Arg Pro Ser

130 135 140

Ser Thr Pro Pro Arg Pro Ala Gly Gln Gly Gln Ala Leu Pro Gln Ile

145 150 155 160

Leu Ile Gly Arg Glu Ala Leu Leu Thr Phe Pro Pro Gly Gly Arg Gly

165 170 175

Trp Ser Glu Ser Pro His Ser Arg Glu Thr His Arg Ser Pro Leu Asn
 180 185 190
 Phe Ala Asp Ala His Leu Glu Asn Gly Leu Ser Cys Thr Arg Pro Ser
 195 200 205
 His Thr Thr Ala Leu Gln Ala Asp Gly Met Phe Gln Leu
 210 215 220

<210> 2299

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2299

Met Leu Pro Arg Ser Gln Ser Leu Cys Tyr Ser Leu Pro Gln Ala Ile
 1 5 10 15
 Leu Ser Pro Trp Pro Pro Lys Val Leu Ser Leu Gln Val Ser Thr Thr
 20 25 30
 Val Ala Ser His Ala Leu Val Leu Arg Ser Arg Ile Phe Leu Phe Gly
 35 40 45
 Ala Phe Thr Ile Ser Phe Arg Leu Gly Asp Arg Glu Pro Thr Lys Gln
 50 55 60
 Pro Phe Arg Gly Trp Lys Lys Ser Leu Glu Lys Glu Leu Cys Gly Phe
 65 70 75 80
 Arg Asn Phe Ser Arg Lys Ser Ser Arg Ala Glu Lys Glu Asn Leu Pro
 85 90 95
 Asn Gly Arg Val Tyr
 100

<210> 2300

<211> 277

<212> PRT

<213> Homo sapiens

<400> 2300

Met Glu Glu Asn Gln Arg Val Ala Arg Arg Arg Arg Phe Pro Phe Val

1 5 10 15

Arg Glu Arg Ser Asp Ser Thr Gly Ser Ser Ser Val Tyr Phe Thr Ala

20 25 30

Ser Ser Gly Ala Thr Phe Thr Asp Ala Glu Ser Glu Gly Gly Tyr Thr

35 40 45

Thr Ala Asn Ala Glu Ser Asp Asn Glu Arg Asp Ser Asp Lys Glu Ser

50 55 60

Glu Asp Gly Glu Asp Glu Val Ser Cys Glu Thr Val Lys Met Gly Arg

65 70 75 80

Lys Asp Ser Leu Asp Leu Glu Glu Glu Ala Ala Ser Gly Ala Ser Ser

85 90 95

Ala Leu Glu Ala Gly Gly Ser Ser Gly Leu Glu Asp Val Leu Pro Leu

100 105 110

Leu Gln Gln Ala Asp Glu Leu His Arg Gly Asp Glu Gln Gly Lys Arg

115 120 125

Glu Gly Phe Gln Leu Leu Leu Asn Asn Lys Leu Val Tyr Gly Ser Arg

130 135 140

Gln Asp Phe Leu Trp Arg Leu Ala Arg Ala Tyr Ser Asp Met Cys Glu

145 150 155 160

Leu Thr Glu Glu Val Ser Glu Lys Lys Ser Tyr Ala Leu Asp Gly Lys

165 170 175

Glu Glu Ala Glu Ala Ala Leu Glu Lys Gly Asp Glu Ser Ala Asp Cys
 180 185 190
 His Leu Trp Tyr Ala Val Leu Cys Gly Gln Leu Ala Glu His Glu Ser
 195 200 205
 Ile Gln Arg Arg Ile Gln Ser Gly Phe Ser Phe Lys Glu His Val Asp
 210 215 220
 Lys Ala Ile Ala Leu Gln Pro Glu Asn Pro Met Ala His Phe Leu Leu
 225 230 235 240
 Gly Arg Trp Cys Tyr Gln Val Ser His Leu Ser Trp Leu Glu Lys Lys
 245 250 255
 Leu Leu Gln Pro Cys Leu Lys Ala Leu Ser Val Pro Leu Trp Lys Met
 260 265 270
 Pro Ser Arg Ala Ser
 275

<210> 2301

<211> 330

<212> PRT

<213> Homo sapiens

<400> 2301

Met Arg Arg Asp Pro Ala Pro Gly Phe Ser Met Leu Leu Phe Gly Val
 1 5 10 15
 Leu Leu Ala Cys Tyr Ser Pro Ser Leu Lys Ser Val Gln Asp Gln Ala
 20 25 30
 Tyr Lys Ala Pro Val Val Val Glu Gly Lys Val Gln Gly Leu Val Pro
 35 40 45
 Ala Gly Gly Ser Ser Ser Asn Ser Thr Arg Glu Pro Pro Ala Ser Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<210> 2303

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2303

Met Gln Pro Pro Ala Leu Ser Ser Asn Ser Arg Val Arg Ile Thr Gln
1 5 10 15
Pro Cys Leu Asp Asp Arg Cys Ser Glu Leu Ser Gly Ala Leu Pro Arg
20 25 30
Ala Gln Arg Ser Arg Ala Val Pro Ile Pro Ala Arg Pro Arg Lys Arg
35 40 45
Pro Ser Cys Arg Glu Ser Gly Lys Pro Arg Ala Gly Trp Val Ser Ala
50 55 60
Gln Ser Pro Thr Thr Gly Trp Gly Gly Gly His Pro Gln Ser Thr Val
65 70 75 80
Ser Gly Gly Arg Asn Arg Ala Leu Leu Ala Ser Val Arg Phe Arg Arg
85 90 95
Arg Gln Arg Gly Tyr Leu Ala Trp Cys Gly Gly Arg Ala Gly Ala Val
100 105 110
Pro Ala Glu Gly Pro Ala Val Cys Ala Gly His Ala Arg Gly His Ala
115 120 125
Gly Arg Pro Ala Ala Ala Ala Pro Arg Lys Ala Ala Pro Ala Gly Ser
130 135 140
Met Arg His Pro Ala Pro Gly Pro Asp Cys Pro Arg His Gln His Gln
145 150 155 160

Gly Gln Lys Gln Tyr Asn Ile His Val Gly Thr Ala Gly Ser Lys Asp
 165 170 175
 Lys Arg Pro Lys Ile Ser Gly Leu Arg Met Glu His Ser His Glu Pro
 180 185 190
 Ala His Asp Lys Thr His Pro Cys Phe Ser Gly Ser Arg Leu Tyr Val
 195 200 205
 Lys Ala Ser Cys Arg Gly Cys
 210 215

<210> 2304

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2304

Met Glu Leu Leu Asp Pro Asp Glu Leu Arg Gly Glu Ala Gly Tyr Tyr
 1 5 10 15
 Leu Thr Thr Trp Phe Gly Ala Leu His His Ile Ala His Tyr Gln Pro
 20 25 30
 Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser Ser Glu Ala Arg Ala Ser
 35 40 45
 Leu His Gln Trp His Arg Arg Arg Thr Leu His Arg Lys Asp His Pro
 50 55 60
 Arg Ala Gln Val Thr Ala His Leu Ala Ala Ser Arg Arg Glu Gly Glu
 65 70 75 80
 Thr Trp Cys Pro Ser Asp Pro Ala Pro Thr Ser Pro His Arg Pro Thr
 85 90 95
 Cys Pro Leu Arg Ser His Gly Gln Lys Arg Leu

100

105

<210> 2305

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2305

Met Ile Leu Lys Lys Gly Pro His Phe Pro Gly Glu Ala Asp Pro Arg

1

5

10

15

Cys Val Val Gly Ser Pro Gly Ala Gly Asp Arg Arg Cys Ala Cys Ala

20

25

30

Ala Ala Gly Thr Gly Ala Ser Arg Leu Gly Val Ala Arg Gly Val Pro

35

40

45

Gly Gln Pro Gly Pro His Pro Gly Pro Leu Val Pro Cys Pro Ser Ser

50

55

60

Leu Pro Ile Leu Pro His Leu Pro Ser Thr Thr Val Ala Ala Ala Gly

65

70

75

80

Ser Ala Ser Ala Thr Gly Ala Ala Ala Arg Arg Cys Arg Cys Gly Ala

85

90

95

Cys Ala Leu Trp Thr Pro Cys Gly Ser Ala Arg Ser Ala Pro Trp Cys

100

105

110

Pro Ser Arg Arg Arg Ser Ser Thr Thr Ser Ser Ser Lys Cys Ser

115

120

125

<210> 2306

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2306

Met Val Ala Ala Tyr Ala Gly His Ile Asp Cys Val Arg Glu Leu Val
1 5 10 15
Leu Gln Gly Ala Asp Ile Asn Leu Gln Arg Glu Asp Gly Gly Thr Ala
20 25 30
Leu Leu Ala Ala Ser Gln Tyr Gly His Met Gln Val Val Glu Thr Leu
35 40 45
Leu Lys His Gly Ala Asn Ile His Asp Gln Leu Tyr Asp Gly Ala Thr
50 55 60
Ala Leu Phe Leu Ala Ala Gln Gly Gly Tyr Leu Asp Val Ile Arg Leu
65 70 75 80
Leu Leu Ala Ser Gly Ala Lys Val Asn Gln Pro Arg Thr Gly Gln Arg
85 90 95
Pro Cys Gly Ser Arg Pro Arg Trp Ala Thr Ala Arg Trp Cys Gly Cys
100 105 110
Cys Cys Cys Ala Glu Pro Thr Ala Thr Leu Arg Gly Thr Met Ala Gln
115 120 125
Gln His Tyr
130

<210> 2307

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2307

Met Leu Phe Thr His Ala Ser Leu Thr Ile Met Thr Lys Ile Phe Phe
 1 5 10 15
 Leu Ala Cys Ile Leu Ser Gln Ser Val Gln Tyr Ile Gly Leu Lys Val
 20 25 30
 Leu Trp Lys Ser Leu Cys Arg Ser Ile Ile Cys Val Lys Lys Lys Lys
 35 40 45
 Lys Pro Lys Lys Gln Lys Lys Lys Thr Phe Asp Leu Ser Arg His Ile
 50 55 60
 Glu Ala Gln Leu Thr Ala Ser Phe Ala Gly Ile Trp Phe Tyr Phe Leu
 65 70 75 80
 Phe Arg Phe Ile Ile Asp Ser Thr Ser Ile Ser Leu Asp Cys Phe Phe
 85 90 95
 Val Ile Val Gly Gln Val Ser Ile Ser Ile Asn Ser Ile Leu Ser Leu
 100 105 110
 Asn Ser Ser Phe His Thr Ser Phe Asp Thr Leu Val Ala Leu Ser Phe
 115 120 125
 Ile Leu Leu Val Phe Val Leu Arg Gln Ser Leu Ala Leu Pro Leu Arg
 130 135 140
 Leu Glu Cys Ser Gly Thr Ile Thr Ala His Cys Ser Leu Tyr Leu Leu
 145 150 155 160
 Gly Pro Ser Ser Ala Leu Asp Ser Gly Met Pro Asn Ser Val Ala Gly
 165 170 175
 Thr Thr Ser Leu Thr Ile Leu Pro Gly Leu Val Leu Asn Pro
 180 185 190

<210> 2308

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2308

Met Leu Glu Asp Pro Val Ala Leu Lys Ala Cys Leu Leu His Ile Cys

1 5 10 15

Leu Gln Ser Gln Thr Ser Gly Pro Gly Ala Val Ser Ser Leu Val Ser

20 25 30

Gly Ile Pro Val Ala Ser Met Phe Cys Val Cys Val Trp Cys Ala Pro

35 40 45

Ser Ser His Cys Leu Asn Ser Leu Lys Ser His Lys Gly Gly Leu Leu

50 55 60

Leu Glu Ile Trp Pro Pro Leu Ala Pro Pro Arg Ser Pro His Val Ser

65 70 75 80

Pro Thr Gly Ser Pro Gln Thr Thr Ser Glu Gly Leu Thr Cys Cys His

85 90 95

Ser Leu Leu Leu Pro Gln Ser Arg Val Met Arg Met Asp Gly Val Gln

100 105 110

Gly Phe Arg Trp Gly Leu Arg Arg Cys Pro Cys Trp Pro Cys Pro Ser

115 120 125

Trp Leu Ser Arg Pro Gly Phe Thr Val Gln Leu His Leu Tyr Ala Gly

130 135 140

Arg Gly Ala Asp Ser Ser Gly Thr Pro Trp Phe Trp Ile Pro Phe Leu

145 150 155 160

Gly Ser Leu Trp Arg Gln Pro Gly Phe Ser Gly Ala Ala Ser Gln Gln

165 170 175

Leu Ser Gln Gly

180

<210> 2309

<211> 1015

<212> PRT

<213> Homo sapiens

<400> 2309

Met Ala Gln Gly Glu Ala Gln Trp Phe Gln Glu Ala Lys Asn Leu Asn

1 5 10 15

Glu Gln Leu Arg Ala Ala Tyr Thr Ser Ala Ser Phe Arg His Met Ser

20 25 30

Leu Leu Asp Ile Ser Ser Asp Leu Ala Thr Asp His Leu Leu Gly Cys

35 40 45

Asp Leu Ser Ile Ala Ser Lys His Ile Ser Lys Pro Val Gln Glu Pro

50 55 60

Leu Val Leu Pro Glu Val Phe Gly Asn Leu Asn Ser Val Met Cys Val

65 70 75 80

Glu Gly Glu Ala Gly Ser Gly Lys Thr Val Leu Leu Lys Lys Ile Ala

85 90 95

Phe Leu Trp Ala Ser Gly Cys Cys Pro Leu Leu Asn Arg Phe Gln Leu

100 105 110

Val Phe Tyr Leu Ser Leu Ser Ser Thr Arg Pro Asp Glu Gly Leu Ala

115 120 125

Ser Ile Ile Cys Asp Gln Leu Leu Glu Lys Glu Gly Ser Val Thr Glu

130 135 140

Met Cys Met Arg Asn Ile Ile Gln Gln Leu Lys Asn Gln Val Leu Phe

145 150 155 160

Leu Leu Asp Asp Tyr Lys Glu Ile Cys Ser Ile Pro Gln Val Ile Gly

165 170 175

Lys Leu Ile Gln Lys Asn His Leu Ser Arg Thr Cys Leu Leu Ile Ala
180 185 190
Val Arg Thr Asn Arg Ala Arg Asp Ile Arg Arg Tyr Leu Glu Thr Ile
195 200 205
Leu Glu Ile Lys Ala Phe Pro Phe Tyr Asn Thr Val Cys Ile Leu Arg
210 215 220
Lys Leu Phe Ser His Asn Met Thr Arg Leu Arg Lys Phe Met Val Tyr
225 230 235 240
Phe Gly Lys Asn Gln Ser Leu Gln Lys Ile Gln Lys Thr Pro Leu Phe
245 250 255
Val Ala Ala Ile Cys Ala His Trp Phe Gln Tyr Pro Phe Asp Pro Ser
260 265 270
Phe Asp Asp Val Ala Val Phe Lys Ser Tyr Met Glu Arg Leu Ser Leu
275 280 285
Arg Asn Lys Ala Thr Ala Glu Ile Leu Lys Ala Thr Val Ser Ser Cys
290 295 300
Gly Glu Leu Ala Leu Lys Gly Phe Phe Ser Cys Cys Phe Glu Phe Asn
305 310 315 320
Asp Asp Asp Leu Ala Glu Ala Gly Val Asp Glu Asp Glu Asp Leu Thr
325 330 335
Met Cys Leu Met Ser Lys Phe Thr Ala Gln Arg Leu Arg Pro Phe Tyr
340 345 350
Arg Phe Leu Ser Pro Ala Phe Gln Glu Phe Leu Ala Gly Met Arg Leu
355 360 365
Ile Glu Leu Leu Asp Ser Asp Arg Gln Glu His Gln Asp Leu Gly Leu
370 375 380
Tyr His Leu Lys Gln Ile Asn Ser Pro Ile Met Thr Val Ser Ala Tyr
385 390 395 400
Asn Asn Phe Leu Asn Tyr Val Ser Ser Leu Pro Ser Thr Lys Ala Gly

405	410	415
Pro Lys Ile Val Ser His Leu Leu His Leu Val Asp Asn Lys Glu Ser		
420	425	430
Leu Glu Asn Ile Ser Glu Asn Asp Asp Tyr Leu Lys His Gln Pro Glu		
435	440	445
Ile Ser Leu Gln Met Gln Leu Leu Arg Gly Leu Trp Gln Ile Cys Pro		
450	455	460
Gln Ala Tyr Phe Ser Met Val Ser Glu His Leu Leu Val Leu Ala Leu		
465	470	475
Lys Thr Ala Tyr Gln Ser Asn Thr Val Ala Ala Cys Ser Pro Phe Val		
485	490	495
Leu Gln Phe Leu Gln Gly Arg Thr Leu Thr Leu Gly Ala Leu Asn Leu		
500	505	510
Gln Tyr Phe Phe Asp His Pro Glu Ser Leu Ser Leu Leu Arg Ser Ile		
515	520	525
His Phe Pro Ile Arg Gly Asn Lys Thr Ser Pro Arg Ala His Phe Ser		
530	535	540
Val Leu Glu Thr Cys Phe Asp Lys Ser Gln Val Pro Thr Ile Asp Gln		
545	550	555
Asp Tyr Ala Ser Ala Phe Glu Pro Met Asn Glu Trp Glu Arg Asn Leu		
565	570	575
Ala Glu Lys Glu Asp Asn Val Lys Ser Tyr Met Asp Met Gln Arg Arg		
580	585	590
Ala Ser Pro Asp Leu Ser Thr Gly Tyr Trp Lys Leu Ser Pro Lys Gln		
595	600	605
Tyr Lys Ile Pro Cys Leu Glu Val Asp Val Asn Asp Ile Asp Val Val		
610	615	620
Gly Gln Asp Met Leu Glu Ile Leu Met Thr Val Phe Ser Ala Ser Gln		
625	630	635
		640

Arg Ile Glu Leu His Leu Asn His Ser Arg Gly Phe Ile Glu Ser Ile
645 650 655

Arg Pro Ala Leu Glu Leu Ser Lys Ala Ser Val Thr Lys Cys Ser Ile
660 665 670

Ser Lys Leu Glu Leu Ser Ala Ala Glu Gln Glu Leu Leu Leu Thr Leu
675 680 685

Pro Ser Leu Glu Ser Leu Glu Val Ser Gly Thr Ile Gln Ser Gln Asp
690 695 700

Gln Ile Phe Pro Asn Leu Asp Lys Phe Leu Cys Leu Lys Glu Leu Ser
705 710 715 720

Val Asp Leu Glu Gly Asn Ile Asn Val Phe Ser Val Ile Pro Glu Glu
725 730 735

Phe Pro Asn Phe His His Met Glu Lys Leu Leu Ile Gln Ile Ser Ala
740 745 750

Glu Tyr Asp Pro Ser Lys Leu Val Lys Leu Ile Gln Asn Ser Pro Asn
755 760 765

Leu His Val Phe His Leu Lys Cys Asn Phe Phe Ser Asp Phe Gly Ser
770 775 780

Leu Met Thr Met Leu Val Ser Cys Lys Lys Leu Thr Glu Ile Lys Phe
785 790 795 800

Ser Asp Ser Phe Phe Gln Ala Val Pro Phe Val Ala Ser Leu Pro Asn
805 810 815

Phe Ile Ser Leu Lys Ile Leu Asn Leu Glu Gly Gln Gln Phe Pro Asp
820 825 830

Glu Glu Thr Ser Glu Lys Phe Ala Tyr Ile Leu Gly Ser Leu Ser Asn
835 840 845

Leu Glu Glu Leu Ile Leu Pro Thr Gly Asp Gly Ile Tyr Arg Val Ala
850 855 860

Lys Leu Ile Ile Gln Gln Cys Gln Gln Leu His Cys Leu Arg Val Leu

865	870	875	880
Ser Phe Phe Lys Thr Leu Asn Asp Asp Ser Val Val Glu Ile Ala Lys			
	885	890	895
Val Ala Ile Ser Gly Gly Phe Gln Lys Leu Glu Asn Leu Lys Leu Ser			
	900	905	910
Ile Asn His Lys Ile Thr Glu Glu Gly Tyr Arg Asn Phe Phe Gln Ala			
	915	920	925
Leu Asp Asn Met Pro Asn Leu Gln Glu Leu Asp Ile Ser Arg His Phe			
	930	935	940
Thr Glu Cys Ile Lys Ala Gln Ala Thr Thr Val Lys Ser Leu Ser Gln			
945	950	955	960
Cys Val Leu Arg Leu Pro Arg Leu Ile Arg Leu Asn Met Leu Ser Trp			
	965	970	975
Leu Leu Asp Ala Asp Asp Ile Ala Leu Leu Asn Val Met Lys Glu Arg			
	980	985	990
His Pro Gln Ser Lys Tyr Leu Thr Ile Leu Gln Lys Trp Ile Leu Pro			
	995	1000	1005
Phe Ser Pro Ile Ile Gln Lys			
1010	1015		

<210> 2310

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2310

Met Gln Phe Leu His Lys Leu Ile Leu Asn His Asn Pro Leu Thr Thr

1

5

10

15

Val	Glu	Asp	Pro	Tyr	Leu	Phe	Lys	Leu	Pro	Ala	Leu	Lys	Tyr	Leu	Asp
			20					25					30		
Met	Gly	Thr	Thr	Leu	Val	Pro	Leu	Thr	Thr	Leu	Lys	Asn	Ile	Leu	Met
			35					40					45		
Met	Thr	Val	Glu	Leu	Glu	Lys	Leu	Ile	Leu	Pro	Ser	His	Met	Ala	Cys
			50					55					60		
Cys	Leu	Cys	Gln	Phe	Lys	Asn	Ser	Ile	Glu	Ala	Val	Cys	Lys	Thr	Val
			65					70					75		80
Lys	Leu	His	Cys	Asn	Ser	Ala	Cys	Leu	Thr	Asn	Thr	Thr	His	Cys	Pro
				85						90				95	
Glu	Glu	Ala	Ser	Val	Gly	Asn	Pro	Glu	Gly	Ala	Phe	Met	Lys	Val	Leu
				100						105				110	
Gln	Ala	Arg	Lys	Asn	Tyr	Thr	Ser	Thr	Glu	Leu	Ile	Val	Glu	Pro	Glu
				115						120				125	
Glu	Pro	Ser	Asp	Ser	Ser	Gly	Ile	Asn	Leu	Ser	Gly	Phe	Gly	Ser	Glu
			130							135				140	
Gln	Leu	Asp	Thr	Asn	Asp	Glu	Ser	Asp	Phe	Ile	Ser	Thr	Leu	Ser	Tyr
			145							150				155	160
Ile	Leu	Pro	Tyr	Phe	Ser	Ala	Val	Asn	Leu	Asp	Val	Lys	Ser	Leu	Leu
				165						170				175	
Leu	Pro	Leu	Ile	Lys	Leu	Pro	Thr	Thr	Gly	Asn	Ser	Leu	Ala	Lys	Ile
				180						185				190	
Gln	Thr	Val	Gly	Gln	Asn	Arg	Gln	Arg	Val	Lys	Arg	Val	Leu	Met	Gly
				195						200				205	
Pro	Arg	Ser	Ile	Gln	Lys	Arg	His	Phe	Lys	Glu	Val	Gly	Arg	Gln	Ser
				210						215				220	
Ile	Arg	Arg	Glu	Gln	Gly	Ala	Gln	Ala	Ser	Val	Glu	Asn	Ala	Ala	Glu
			225							230				235	240
Glu	Lys	Arg	Leu	Gly	Ser	Pro	Ala	Pro	Thr	Glu	Glu	Glu	Glu	Ser	Glu

245

250

255

Ala Leu Pro

<210> 2311

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2311

Met Ala Thr Ser Asp Pro Pro Gln Ser Leu Asp Thr Ser Leu Phe Phe

1

5

10

15

Gly Thr Val Ala Met Lys Asn Ser Ser Pro Glu Pro Gln Ala Leu Thr

20

25

30

Pro Ser Ser Lys Leu Thr Val Asp Thr Asp Ala Leu Thr Pro Ser Ser

35

40

45

Thr Leu Cys Glu Asn Ser Val Ser Glu Leu Leu Thr Pro Thr Lys Ala

50

55

60

Glu Trp Asn Val His Pro Asp Ser Asp Phe Phe Gly Gln Glu Gly Glu

65

70

75

80

Thr Gln Phe Gly Phe Pro Asn Ala Ala Gly Asn His Gly Ser Gln Lys

85

90

95

Glu Thr Asp Leu Ile Thr Val Thr Gly Ser Ser Phe Leu Val

100

105

110

<210> 2312

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2312

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Met Lys Met Ser Phe Phe Glu Arg Leu Arg Ser Ala Thr Trp Lys Pro
  1             5             10             15
Val Pro Asp Ser His Gln Gly Pro Ala Phe Tyr Cys Gly Thr Leu Lys
          20             25             30
Ala Gly Pro Ser Pro Lys Asp Thr Phe Leu Ser Leu Leu Asn Trp Asn
          35             40             45
Tyr Gly Phe Val Phe Ile Asn Gly Arg Asn Leu Gly Arg Tyr Trp Asn
          50             55             60
Ile Gly Pro Gln Lys Thr Leu Tyr Leu Pro Gly Val Trp Leu His Pro
          65             70             75             80
Glu Asp Asn Glu Val Ile Leu Phe Glu Lys Met Met Ser Gly Ser Asp
          85             90             95
Ile Lys Ser Thr Asp Lys Pro Thr Pro
          100             105

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<210> 2313

<211> 567

<212> PRT

<213> Homo sapiens

<400> 2313

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Met Ala Ala Pro Gln Gly Leu Ala Ala Thr Ser Pro Ser Pro Arg Leu
  1             5             10             15
Ser Ala Gly Pro Arg Pro Thr Ser Val Thr Trp Cys Ser Ser Ser Phe

```

20	25	30
Trp Trp Thr Pro Ile Pro Phe Pro Leu Ala Ile Ser Ala Thr Thr Pro		
35	40	45
Ser Pro Pro Arg Trp Pro Arg Trp Arg Ser Arg His Arg Pro Ala Pro		
50	55	60
Arg Ser Pro Ser Ser Gly Trp Pro Gln Ser Ala Pro His Arg Glu Gly		
65	70	75
Arg Tyr Leu Ser Glu Glu Pro Glu Pro Tyr Leu Ala Val Tyr Leu His		
85	90	95
Ser Glu Pro Arg Pro Asn Glu Arg Asn Cys Ser Ala Ser Arg Arg Ile		
100	105	110
Arg Pro Glu Ser Leu Gln Gly Ala Asp His Arg Pro Tyr Thr Phe Phe		
115	120	125
Ile Ser Pro Gly Thr Arg Asp Pro Val Gly Ser Tyr Arg Leu Asn Leu		
130	135	140
Ser Ser His Phe Arg Trp Ser Ala Leu Glu Val Ser Val Gly Leu Tyr		
145	150	155
Thr Ser Leu Cys Gln Tyr Phe Ser Glu Glu Asp Val Val Trp Arg Thr		
165	170	175
Glu Gly Leu Leu Pro Leu Glu Glu Thr Ser Pro Arg Gln Ala Val Cys		
180	185	190
Leu Thr Arg His Leu Thr Ala Phe Gly Thr Ser Leu Phe Met Pro Pro		
195	200	205
Ser His Val Arg Phe Val Phe Pro Glu Pro Thr Ala Asp Val Asn Tyr		
210	215	220
Ile Val Met Leu Thr Cys Ala Val Cys Leu Val Thr Tyr Met Val Met		
225	230	235
Ala Ala Ile Leu His Lys Leu Asp Gln Leu Asp Ala Ser Arg Gly Cys		
245	250	255

Ala Ile Pro Phe Cys Gly Gln Arg Gly Arg Phe Lys Tyr Glu Ile Leu
260 265 270
Val Lys Thr Gly Trp Gly Arg Gly Ser Gly Thr Thr Ala His Val Gly
275 280 285
Ile Met Leu Tyr Gly Val Asp Ser Arg Ser Gly His Arg His Leu Asp
290 295 300
Gly Asp Arg Ala Phe His Arg Asn Ser Leu Asp Ile Phe Gln Ile Ala
305 310 315 320
Thr Pro His Ser Leu Gly Ser Val Trp Lys Ile Arg Val Trp His Asp
325 330 335
Asn Lys Gly Leu Ser Pro Ala Trp Phe Leu Gln His Ile Ile Val Arg
340 345 350
Asp Leu Gln Thr Ala Arg Ser Thr Phe Phe Leu Val Asn Asp Trp Leu
355 360 365
Ser Val Glu Thr Glu Ala Asn Gly Gly Leu Val Glu Lys Glu Val Leu
370 375 380
Ala Ala Ser His Ala Ala Leu Leu Arg Phe Arg Arg Leu Leu Val Ala
385 390 395 400
Glu Leu Gln Arg Gly Phe Phe Asp Lys His Ile Trp Leu Ser Ile Trp
405 410 415
Asp Arg Pro Pro Arg Ser Cys Phe Thr Arg Ile Gln Arg Ala Thr Cys
420 425 430
Cys Val Leu Leu Ile Cys Leu Phe Leu Gly Ala Asn Ala Val Trp Tyr
435 440 445
Gly Ala Val Gly Asp Ser Ala Tyr Ser Thr Gly Arg Val Ser Arg Leu
450 455 460
Asn Pro Leu Ser Val Asp Thr Val Ala Val Gly Leu Val Ser Ser Val
465 470 475 480
Val Val Tyr Pro Val Tyr Leu Val Ile Leu Phe Leu Phe Arg Met Ser

	485		490		495
Arg Ser Lys Val Ala Gly Ser Pro Ser Pro Thr Pro Ala Gly Gln Gln					
	500		505		510
Val Leu Asp Val Asp Ser Cys Leu Asp Ser Ser Val Leu Asp Ser Ser					
	515		520		525
Phe Leu Thr Phe Ser Gly Leu His Ala Glu Val Arg Ala Leu Leu Gly					
	530		535		540
Val Leu Pro Pro Trp Arg Ser Leu Asp Ser Arg Pro Cys Ala Pro Leu					
545		550		555	560
Ser Arg Pro Leu Leu Asp Arg					
	565				

<210> 2314

<211> 314

<212> PRT

<213> Homo sapiens

<400> 2314

Met Pro Lys Ser Pro Phe Lys Arg Lys Arg Thr Thr Asn Glu Ile Lys			
1	5	10	15
Asn Leu Gln Tyr Leu Pro Arg Thr Ser Glu Pro Arg Glu Met Leu Phe			
	20	25	30
Glu Asp Arg Thr Arg Ala His Ala Asp His Ile Gly Gln Gly Phe Glu			
	35	40	45
Arg Gln Thr Thr Ala Ala Val Gly Val Leu Lys Ala Val His Cys Gly			
	50	55	60
Glu Trp Pro Asp Gln Pro Arg Ile Thr Lys Asp Val Ile Cys Phe His			
65	70	75	80

Ala Glu Asp Phe Leu Glu Val Val Gln Arg Met Gln Leu Asp Leu His
 85 90 95
 Glu Pro Pro Leu Ser Gln Cys Val Gln Trp Val Asp Asp Ala Lys Leu
 100 105 110
 Asn Gln Leu Arg Arg Glu Gly Ile Arg Tyr Ala Arg Ile Gln Leu Tyr
 115 120 125
 Asp Asn Asp Ile Tyr Phe Ile Pro Arg Asn Val Val His Gln Phe Lys
 130 135 140
 Thr Val Ser Ala Val Cys Ser Leu Ala Trp His Ile Arg Leu Lys Leu
 145 150 155 160
 Tyr His Ser Glu Glu Asp Thr Ser Gln Asn Thr Ala Thr His Glu Thr
 165 170 175
 Gly Thr Ser Ser Asp Ser Thr Ser Ser Val Leu Gly Pro His Thr Asp
 180 185 190
 Asn Met Ile Cys Ala Val Ser Lys Ala Ser Leu Asp Ser Val Phe Ser
 195 200 205
 Asp Lys Leu His Ser Lys Tyr Glu Leu Gln Gln Ile Lys His Glu Pro
 210 215 220
 Ile Ala Ser Val Arg Ile Lys Glu Glu Pro Val Asn Val Asn Ile Pro
 225 230 235 240
 Glu Lys Thr Thr Ala Leu Asn Asn Met Asp Gly Lys Asn Val Lys Ala
 245 250 255
 Lys Leu Asp His Val Gln Phe Ala Glu Phe Lys Ile Asp Met Asp Ser
 260 265 270
 Lys Phe Glu Ser Ser Asn Lys Asp Leu Lys Glu Glu Leu Cys Pro Gly
 275 280 285
 Asn Leu Ser Leu Val Asp Thr Arg Gln His Ser Ser Ala His Ser Asn
 290 295 300
 Gln Asp Lys Lys Asp Asp Asp Ile Leu Cys

305

310

<210> 2315

<211> 200

<212> PRT

<213> Homo sapiens

<400> 2315

Met Ala Gln Gln Arg Ala Leu Pro Gln Ser Lys Glu Thr Leu Leu Gln

1 5 10 15

Ser Tyr Asn Lys Arg Leu Lys Asp Asp Ile Lys Ser Ile Met Asp Asn

20 25 30

Phe Thr Glu Ile Ile Lys Thr Ala Lys Ile Glu Asp Glu Thr Gln Val

35 40 45

Ser Arg Ala Thr Gln Gly Glu Gln Asp Asn Tyr Glu Met His Val Arg

50 55 60

Ala Ala Asn Ile Val Arg Ala Gly Glu Ser Leu Met Lys Leu Val Ser

65 70 75 80

Asp Leu Lys Gln Phe Leu Ile Leu Asn Asp Phe Pro Ser Val Asn Glu

85 90 95

Ala Ile Asp Gln Arg Asn Gln Gln Leu Arg Thr Leu Gln Glu Glu Cys

100 105 110

Asp Arg Lys Leu Ile Thr Leu Arg Asp Glu Ile Ser Ile Asp Leu Tyr

115 120 125

Glu Leu Glu Glu Glu Tyr Tyr Ser Ser Ser Ser Ser Leu Cys Glu Ala

130 135 140

Asn Asp Leu Pro Leu Cys Glu Ala Tyr Gly Arg Leu Asp Leu Asp Thr

145 150 155 160

Asp Ser Ala Asp Gly Leu Ser Ala Pro Leu Leu Ala Ser Pro Glu Pro
 165 170 175
 Ser Ala Gly Pro Leu Gln Val Ala Ala Pro Ala His Ser His Ala Gly
 180 185 190
 Gly Pro Gly Pro Thr Glu His Ala
 195 200

<210> 2316

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2316

Met Thr Thr Ala Thr Pro Leu Gly Asp Thr Thr Phe Phe Ser Leu Asn
 1 5 10 15
 Met Thr Thr Arg Gly Glu Asp Phe Leu Tyr Lys Ser Ser Gly Ala Ile
 20 25 30
 Val Ala Ala Val Val Val Val Val Ile Ile Ile Phe Thr Val Val Leu
 35 40 45
 Ile Leu Leu Lys Met Tyr Asn Arg Lys Met Arg Thr Arg Arg Glu Leu
 50 55 60
 Glu Pro Lys Gly Pro Lys Pro Thr Ala Pro Ser Ala Val Gly Pro Asn
 65 70 75 80
 Ser Asn Gly Ser Gln His Pro Ala Thr Val Thr Phe Ser Pro Val Asp
 85 90 95
 Val Gln Val Glu Thr Arg
 100

<210> 2317

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2317

Met Val Met Leu Glu Asp Ser Asn Ser Ser Thr Gly Cys Gly Ala Arg

1 5 10 15

Asn Cys Val Glu Cys Leu Val Phe Leu Ser Val Leu Gly Cys Gln Ser

20 25 30

Glu Arg Lys Gly Gln Met Arg Thr Gln Gln Ala Gly Arg Trp Leu Arg

35 40 45

Ala Gly Arg Glu Ala Ser Ser Glu Thr Asn Pro Glu Gly Thr Leu Ile

50 55 60

Leu Asp Phe Gln Ser Pro Glu Leu Pro Leu Ala Ala Arg Gly Trp Gln

65 70 75 80

Glu His Glu Pro Val Val Arg Cys Asn Val Leu Pro His Ala Phe Ser

85 90 95

Ser Trp Cys Phe Gly Gln Asn Phe Pro Lys Trp Ser Glu Thr Gln Glu

100 105 110

Leu Arg Asn Arg Val Thr Val Lys Arg Trp Glu Ile Ile Ser Cys Glu

115 120 125

Asn Ser Gly Arg Lys

130

<210> 2318

<211> 224

<212> PRT

<213> Homo sapiens

<400> 2318

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Met Tyr Arg Pro Ala Thr Ala Leu Gly Ser Asn Arg Ala Val Gln Leu
  1           5           10           15
Leu Leu Glu Thr Ser Ala Asp Asn Gln His Tyr Tyr Cys Asp Ser Leu
          20           25           30
Lys Ala Cys Leu Val Thr Thr Val Thr Ser Ser Gly Pro Ser Gln Ser
          35           40           45
Thr Ile Lys Leu Val Ala Thr Asn Met Ile Ala Asn Gly Lys Leu Ala
          50           55           60
Glu Gly Val Gln Leu Leu Cys Leu Ile Asp Lys Ala Ala Asp Ala Cys
          65           70           75           80
Arg Tyr Leu Gln Thr Tyr Gly Glu Trp Asn Arg Ala Ala Trp Leu Ala
          85           90           95
Lys Val Arg Leu Asn Pro Glu Glu Cys Ala Asp Val Leu Arg Arg Trp
          100          105          110
Val Asp His Leu Cys Ser Pro Gln Val Asn Gln Lys Ser Lys Ala Leu
          115          120          125
Leu Val Leu Leu Ser Leu Gly Cys Phe Phe Ser Val Ala Glu Thr Leu
          130          135          140
His Ser Met Arg Tyr Phe Asp Arg Ala Ala Leu Phe Val Glu Ala Cys
          145          150          155          160
Leu Lys Tyr Gly Ala Phe Glu Val Thr Glu Asp Thr Glu Lys Leu Ile
          165          170          175
Thr Ala Ile Tyr Ala Asp Tyr Ala Arg Ser Ser Lys Asn Leu Gly Phe
          180          185          190
Lys Gln Gly Ala Val Leu Phe Ala Ser Lys Ala Gly Ala Ala Gly Lys

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195	200	205
Asp Leu Leu Asn Glu Leu Glu Ser Pro Lys Glu Glu Pro Ile Glu Glu		
210	215	220

<210> 2319

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2319

Met Pro Gly Ser Leu Lys Arg Asp His Ile Leu Tyr His Leu Ile Leu		
1	5	10
Ile Trp Gly Ile Ile Phe Ile Ser His Gln Asp Lys Ile Pro Gly Gly		
20	25	30
Gly Ile Thr Cys Lys Val His Thr Ser Pro Pro Met Tyr Ser Leu Asp		
35	40	45
Arg Ile Phe Ala Gly Phe Arg Thr Gln Ser Gln Met Leu Leu Asp His		
50	55	60
Val Glu Glu Arg Asp Glu Val Leu His Cys Gln Phe Ser Asp Asn Ser		
65	70	75
Asp Asp Glu Glu Ser Glu Gly Gln Glu Lys Ser Gly Thr Arg Cys Arg		
85	90	95
Ser Arg Ser Trp Ile Gln Lys Pro Asp Ser Val Pro Leu Leu Asn		
100	105	110

<210> 2320

<211> 733

<212> PRT

<213> Homo sapiens

<400> 2320

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Met Pro Ala Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile Cys Gly
  1             5             10             15
His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys Tyr Cys Asn
      20             25             30
Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val Asp Val Asn
      35             40             45
Glu Cys Glu Ala Glu Pro Cys Gly Pro Gly Arg Gly Ile Cys Met Asn
      50             55             60
Thr Gly Gly Ser Tyr Asn Cys His Cys Asn Arg Gly Tyr Arg Leu His
      65             70             75             80
Val Gly Ala Gly Gly Arg Ser Cys Val Asp Leu Asn Glu Cys Ala Lys
      85             90             95
Pro His Leu Cys Gly Asp Gly Gly Phe Cys Ile Asn Phe Pro Gly His
      100            105            110
Tyr Lys Cys Asn Cys Tyr Pro Gly Tyr Arg Leu Lys Ala Ser Arg Pro
      115            120            125
Pro Val Cys Glu Asp Ile Asp Glu Cys Arg Asp Pro Ser Ser Cys Pro
      130            135            140
Asp Gly Lys Cys Glu Asn Lys Pro Gly Ser Phe Lys Cys Ile Ala Cys
      145            150            155            160
Gln Pro Gly Tyr Arg Ser Gln Gly Gly Gly Ala Cys Arg Asp Val Asn
      165            170            175
Glu Cys Ala Glu Gly Ser Pro Cys Ser Pro Gly Trp Cys Glu Asn Leu
      180            185            190
Pro Gly Ser Phe Arg Cys Thr Cys Ala Gln Gly Tyr Ala Pro Ala Pro

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195	200	205
Asp Gly Arg Ser Cys Leu Asp Val	Asp Glu Cys Glu Ala Gly Asp Val	
210	215	220
Cys Asp Asn Gly Ile Cys Ser Asn Thr Pro Gly Ser Phe Gln Cys Gln		
225	230	235
Cys Leu Ser Gly Tyr His Leu Ser Arg Asp Arg Ser His Cys Glu Asp		
245	250	255
Ile Asp Glu Cys Asp Phe Pro Ala Ala Cys Ile Gly Gly Asp Cys Ile		
260	265	270
Asn Thr Asn Gly Ser Tyr Arg Cys Leu Cys Pro Gln Gly His Arg Leu		
275	280	285
Val Gly Gly Arg Lys Cys Gln Asp Ile Asp Glu Cys Ser Gln Asp Pro		
290	295	300
Ser Leu Cys Leu Pro His Gly Ala Cys Lys Asn Leu Gln Gly Ser Tyr		
305	310	315
Val Cys Val Cys Asp Glu Gly Phe Thr Pro Thr Gln Asp Gln His Gly		
325	330	335
Cys Glu Glu Val Glu Gln Pro His His Lys Lys Glu Cys Tyr Leu Asn		
340	345	350
Phe Asp Asp Thr Val Phe Cys Asp Ser Val Leu Ala Thr Asn Val Thr		
355	360	365
Gln Gln Glu Cys Cys Cys Ser Leu Gly Ala Gly Trp Gly Asp His Cys		
370	375	380
Glu Ile Tyr Pro Cys Pro Val Tyr Ser Ser Ala Glu Phe His Ser Leu		
385	390	395
Cys Pro Asp Gly Lys Gly Tyr Thr Gln Asp Asn Ile Ile Val Asn Tyr		
405	410	415
Gly Ile Pro Ala His Arg Asp Ile Asp Glu Cys Met Leu Phe Gly Ser		
420	425	430

Glu Ile Cys Lys Glu Gly Lys Cys Val Asn Thr Gln Pro Gly Tyr Glu
 435 440 445
 Cys Tyr Cys Lys Gln Gly Phe Tyr Tyr Asp Gly Asn Leu Leu Glu Cys
 450 455 460
 Val Asp Val Asp Glu Cys Leu Asp Glu Ser Asn Cys Arg Asn Gly Val
 465 470 475 480
 Cys Glu Asn Thr Arg Gly Gly Tyr Arg Cys Ala Cys Thr Pro Pro Ala
 485 490 495
 Glu Tyr Ser Pro Ala Gln Arg Gln Cys Leu Ser Pro Glu Glu Met Asp
 500 505 510
 Val Asp Glu Cys Gln Asp Pro Ala Ala Cys Arg Pro Gly Arg Cys Val
 515 520 525
 Asn Leu Pro Gly Ser Tyr Arg Cys Glu Cys Arg Pro Pro Trp Val Pro
 530 535 540
 Gly Pro Ser Gly Arg Asp Cys Gln Leu Pro Glu Ser Pro Ala Glu Arg
 545 550 555 560
 Ala Pro Glu Arg Arg Asp Val Cys Trp Ser Gln Arg Gly Glu Asp Gly
 565 570 575
 Met Cys Ala Gly Pro Leu Ala Gly Pro Ala Leu Thr Phe Asp Asp Cys
 580 585 590
 Cys Cys Arg Gln Gly Arg Gly Trp Gly Ala Gln Cys Arg Pro Cys Pro
 595 600 605
 Pro Arg Gly Ala Gly Ser His Cys Pro Thr Ser Gln Ser Glu Ser Asn
 610 615 620
 Ser Phe Trp Asp Thr Ser Pro Leu Leu Leu Gly Lys Pro Pro Arg Asp
 625 630 635 640
 Glu Asp Ser Ser Glu Glu Asp Ser Asp Glu Cys Arg Cys Val Ser Gly
 645 650 655
 Arg Cys Val Pro Arg Pro Gly Gly Ala Val Cys Glu Cys Pro Gly Gly

660	665	670	
Phe Gln Leu Asp Ala Ser Arg Ala Arg Cys Val Asp Ile Asp Glu Cys			
675	680	685	
Arg Glu Leu Asn Gln Arg Gly Leu Leu Cys Lys Ser Glu Arg Cys Val			
690	695	700	
Asn Thr Ser Gly Ser Phe Arg Cys Val Cys Lys Ala Gly Phe Ala Arg			
705	710	715	720
Ser Arg Pro His Gly Ala Cys Val Pro Gln Arg Arg Arg			
725	730		

<210> 2321

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2321

Met Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu			
1	5	10	15
Cys Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys			
20	25	30	
Ile Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Ser Gly			
35	40	45	
Pro Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala			
50	55	60	
Pro Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro			
65	70	75	80
Gln Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln			
85	90	95	

Gly Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro
 100 105 110
 Ala Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe
 115 120 125
 Pro Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly
 130 135 140
 Pro Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His
 145 150 155 160
 Asp Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly
 165 170 175
 Thr Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly
 180 185 190
 Tyr Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro
 195 200 205
 Arg His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro
 210 215 220
 Val Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr
 225 230 235 240
 Pro Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu
 245 250 255
 Val Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn
 260 265 270
 His His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro
 275 280 285
 Asp Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe
 290 295 300
 Ala Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala
 305 310 315 320
 Ala Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro

325 330 335
Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro
340 345 350
Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro
355 360 365
Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro
370 375 380
Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala
385 390 395 400
Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu
405 410 415
Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu
420 425 430
Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu
435 440 445
Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro
450 455 460
Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala
465 470 475 480
Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala
485 490 495
Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu
500 505 510
Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala
515 520 525
His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu
530 535 540
Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp
545 550 555 560

Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe
565 570 575
Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu
580 585 590
His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu
595 600 605
Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr
610 615 620
Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu
625 630 635 640
Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys
645 650 655
Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu
660 665 670
Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Pro Ile Asp His
675 680 685
Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr
690 695 700
Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu
705 710 715 720
Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe
725 730 735
Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His
740 745 750
Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp
755 760 765
Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr
770 775 780
His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr

785 790 795 800
 Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp
 805 810 815
 Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg
 820 825 830
 Arg Val Leu Gly Gln Leu Ala Ala Ala
 835 840

<210> 2322

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2322

Met Lys Ser Leu Met Leu Leu Gly Leu His Thr Gln Glu Leu Leu Thr
 1 5 10 15
 Leu Met Phe Gly Ala Ser Gly Glu Ser Trp Lys Ser Gly Ser Cys Pro
 20 25 30
 Gly Ser Ile Ser Thr Trp Ser Leu Lys Tyr His Val Ile Pro Pro Ser
 35 40 45
 Pro Ser Gly Leu Ser Ser Ser Pro Trp Ser Leu Trp His Ser Asn Lys
 50 55 60
 His Val Met Gly Gln Gly Phe Arg Arg Val Lys Asn Arg Ile Cys Leu
 65 70 75 80
 Ala Ser Gln Ser Leu Glu Thr His Arg Ala Ser Phe Gln Leu His Ser
 85 90 95
 Cys Trp Ser Glu Pro Val Ile Thr Lys Pro Ala Glu Ile Gln Gly Asn
 100 105 110

Arg

<210> 2323

<211> 257

<212> PRT

<213> Homo sapiens

<400> 2323

```

Met Pro Gly Gly Val Gln Gly Ser Gly Leu Thr Arg Pro Arg Gly His
  1             5             10             15
Pro Gln Asp Asp Leu Trp Pro Arg Val Thr Pro Phe Cys Pro Ala Gly
             20             25             30
Gln His Ile Tyr Leu Ser Ala Arg Ile Asp Gly Asn Leu Val Val Arg
             35             40             45
Pro Tyr Thr Pro Ile Ser Ser Asp Asp Asp Lys Gly Phe Val Asp Leu
             50             55             60
Val Ile Lys Val Tyr Phe Lys Asp Thr His Pro Lys Phe Pro Ala Gly
             65             70             75             80
Gly Lys Met Ser Gln Tyr Leu Glu Ser Met Gln Ile Gly Asp Thr Ile
             85             90             95
Glu Phe Arg Gly Pro Ser Gly Leu Leu Val Tyr Gln Gly Lys Gly Lys
             100            105            110
Phe Ala Ile Arg Pro Asp Lys Lys Ser Asn Pro Ile Ile Arg Thr Val
             115            120            125
Lys Ser Val Gly Met Ile Ala Gly Gly Thr Gly Ile Thr Pro Met Leu
             130            135            140
Gln Val Ile Arg Ala Ile Met Lys Asp Pro Asp Asp His Thr Val Cys

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145 150 155 160
 His Leu Leu Phe Ala Asn Gln Thr Glu Lys Asp Ile Leu Leu Arg Pro
 165 170 175
 Glu Leu Glu Glu Leu Arg Asn Lys His Ser Ala Arg Phe Lys Leu Trp
 180 185 190
 Tyr Thr Leu Asp Arg Ala Pro Glu Ala Trp Asp Tyr Gly Gln Gly Phe
 195 200 205
 Val Asn Glu Glu Met Ile Arg Asp His Leu Pro Pro Pro Glu Glu Glu
 210 215 220
 Pro Leu Val Leu Met Cys Gly Pro Pro Pro Met Ile Gln Tyr Ala Cys
 225 230 235 240
 Leu Pro Asn Leu Asp His Val Gly His Pro Thr Glu Arg Cys Phe Val
 245 250 255
 Phe

<210> 2324

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2324

Met Ala Gly Gly Lys Gly Ala Lys Gln Ile Phe Pro Thr Phe Tyr Leu
 1 5 10 15
 Ala Asn Leu Ser Phe Ala Ala Val Met Cys Gln Val Leu Gly Cys Trp
 20 25 30
 Gly Ile Pro Ser Glu Gln Ser Leu Phe Ser Thr Leu Glu Glu Leu Arg
 35 40 45

Glu Lys Glu Ile Asp Asn Tyr Cys Val Met Arg Leu Gln Thr Glu Gly
 50 55 60
 Leu Ala Ser Ala His Pro Ser Trp Ala Ser Arg Gly His Cys Ser Ile
 65 70 75 80
 Thr Thr Arg Pro Cys Thr Pro Ala Ser Pro Pro Ser Pro Ser Trp Ala
 85 90 95
 Trp Ala Pro Leu
 100

<210> 2325

<211> 449

<212> PRT

<213> Homo sapiens

<400> 2325

Met Met Leu Gly Thr Glu Gly Gly Glu Gly Phe Val Val Lys Val Arg
 1 5 10 15
 Gly Leu Pro Trp Ser Cys Ser Ala Asp Glu Val Gln Arg Phe Phe Ser
 20 25 30
 Asp Cys Lys Ile Gln Asn Gly Ala Gln Gly Ile Arg Phe Ile Tyr Thr
 35 40 45
 Arg Glu Gly Arg Pro Ser Gly Glu Ala Phe Val Glu Leu Glu Ser Glu
 50 55 60
 Asp Glu Val Lys Leu Ala Leu Lys Lys Asp Arg Glu Thr Met Gly His
 65 70 75 80
 Arg Tyr Val Glu Val Phe Lys Ser Asn Asn Val Glu Met Asp Trp Val
 85 90 95
 Leu Lys His Thr Gly Pro Asn Ser Pro Asp Thr Ala Asn Asp Gly Phe

100	105	110	
Val Arg Leu Arg Gly Leu Pro Phe Gly Cys Ser Lys Glu Glu Ile Val			
115	120	125	
Gln Phe Phe Ser Gly Leu Glu Ile Val Pro Asn Gly Ile Thr Leu Pro			
130	135	140	
Val Asp Phe Gln Gly Arg Ser Thr Gly Glu Ala Phe Val Gln Phe Ala			
145	150	155	160
Ser Gln Glu Ile Ala Glu Lys Ala Leu Lys Lys His Lys Glu Arg Ile			
165	170	175	
Gly His Arg Tyr Ile Glu Ile Phe Lys Ser Ser Arg Ala Glu Val Arg			
180	185	190	
Thr His Tyr Asp Pro Pro Arg Lys Leu Met Ala Met Gln Arg Pro Gly			
195	200	205	
Pro Tyr Asp Arg Pro Gly Ala Gly Arg Gly Tyr Asn Ser Ile Gly Arg			
210	215	220	
Gly Ala Gly Phe Glu Arg Met Arg Arg Gly Ala Tyr Gly Gly Gly Tyr			
225	230	235	240
Gly Gly Tyr Asp Asp Tyr Asn Gly Tyr Asn Asp Gly Tyr Gly Phe Gly			
245	250	255	
Ser Asp Arg Phe Gly Arg Asp Leu Asn Tyr Cys Phe Ser Gly Met Ser			
260	265	270	
Asp His Arg Tyr Gly Asp Gly Gly Ser Thr Phe Gln Ser Thr Thr Gly			
275	280	285	
His Cys Val His Met Arg Gly Leu Pro Tyr Arg Ala Thr Glu Asn Asp			
290	295	300	
Ile Tyr Asn Phe Phe Ser Pro Leu Asn Pro Val Arg Val His Ile Glu			
305	310	315	320
Ile Gly Pro Asp Gly Arg Val Thr Gly Glu Ala Asp Val Glu Phe Ala			
325	330	335	

Thr His Glu Asp Ala Val Ala Ala Met Ser Lys Asp Lys Ala Asn Met
 340 345 350
 Gln His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr Ala Gly Ala Ser
 355 360 365
 Gly Gly Ala Tyr Glu His Arg Tyr Val Glu Leu Phe Leu Asn Ser Thr
 370 375 380
 Ala Gly Ala Ser Gly Gly Ala Tyr Gly Ser Gln Met Met Gly Gly Met
 385 390 395 400
 Gly Leu Ser Asn Gln Ser Ser Tyr Gly Gly Pro Ala Ser Gln Gln Leu
 405 410 415
 Ser Gly Gly Tyr Gly Gly Gly Tyr Gly Gly Gln Ser Ser Met Ser Gly
 420 425 430
 Tyr Asp Gln Val Leu Gln Glu Asn Ser Ser Asp Phe Gln Ser Asn Ile
 435 440 445
 Ala

<210> 2326

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2326

Met Asp Ile Pro Lys Cys Tyr Pro Pro Cys Lys Val Ser Trp Pro Pro
 1 5 10 15
 Lys Leu Glu Asp Val Thr Asp Pro Pro Leu Pro Asn Thr Glu Gly Ser
 20 25 30
 Cys Cys Cys Ser His Gly His Pro Phe Thr Gln Pro Ala Ser Leu Lys

35	40	45
Cys Arg Leu Pro Ser His Pro Ser Leu Lys Ala Pro Val Leu Val Thr		
50	55	60
Leu Pro Ile Thr Ala Gln Thr Arg Ala His Tyr Val Pro Glu Ala Glu		
65	70	75
Asp Phe Gln Arg Asn Tyr Leu Phe Val Lys Ile Gln Ser Asn Ile Tyr		
85	90	95
Ile Thr Tyr Leu Tyr His Gln Tyr Cys Leu His Met Phe		
100	105	

<210> 2327

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2327

Met Gly Arg Ser Gly Cys Gly Ser Arg Gly Gly Ile Leu Ser Trp Arg		
1	5	10
Ala Pro Gln Arg Ser Pro Gly Ser Leu Ser Pro Trp Leu Leu Gly Arg		
20	25	30
Arg Gly Arg Arg Pro Trp Gly Ser Ser Arg Gly Leu Gly Gly Gly Asp		
35	40	45
Arg Trp Leu Gly Met Glu Glu Ala Lys Pro Arg Ala Phe Ser Pro Ala		
50	55	60
Pro Ala Gly Asp Phe Gln Ala Pro Ser Thr Ala Asp Arg Ala Arg Ala		
65	70	75
Arg Gly Arg Trp Cys Gly Asp Leu Pro Gly Leu Trp Gly His Glu Arg		
85	90	95

Leu Pro Asp Ala Leu Ala Pro Gln Ala Leu Leu Val Thr Gly Thr Gly
 100 105 110
 Leu Gly Ser Ile Trp Ala Thr Ala Val Thr Leu Arg Pro Leu Leu Arg
 115 120 125
 Pro Gly Gln Gly Ser Val Gly Ala Gly Arg Lys Gly Thr His Ser Phe
 130 135 140
 Leu Gly Ala Pro Val Trp Pro Ala
 145 150

<210> 2328

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2328

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
 1 5 10 15
 Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met
 20 25 30
 Leu Asp His Leu Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val
 35 40 45
 Asp Ser Phe His Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys
 50 55 60
 Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Lys Arg Arg Glu Glu Ser
 65 70 75 80
 Gln His Glu Ile Lys Asp Val Leu Val Trp Thr Asn Asp Gln Val Val
 85 90 95
 His Trp Val Gln Ser Ile Gly Leu Arg Asp Tyr Ala Gly Asn Leu His

100 105 110
 Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Asn Phe Asp
 115 120 125
 His Asn Thr Leu Ala Leu Ile Leu Gln Ile Pro Thr Gln Asn Thr Gln
 130 135 140
 Ala Arg Gln Val Met Glu Arg Glu Phe Asn Asn Leu Leu Ala Leu Gly
 145 150 155 160
 Thr Asp Arg Lys Leu Asp Asp Gly Asp Asp Lys Val Phe Arg Arg Ala
 165 170 175
 Pro Ser Trp Arg Lys Arg Phe Arg Pro Arg Glu His His Gly Arg Gly
 180 185 190
 Gly Met Leu Ser Ala Ser Ala Glu Thr Leu Pro Ala Gly Phe Arg Val
 195 200 205
 Ser Thr Leu Gly Thr Leu Gln Pro Pro Pro Ala Pro Pro Lys Lys Ile
 210 215 220
 Met Pro Glu Gly Glu
 225

<210> 2329

<211> 170

<212> PRT

<213> Homo sapiens

<400> 2329

Met Asn Arg Leu Leu Phe Phe Lys Ser Gln Gly Leu Ala Leu Leu Pro
 1 5 10 15
 Arg Leu Lys Cys Ser Gly Ala Ile Ile Ala His Cys Asn Phe Glu Leu
 20 25 30

Leu Gly Ser Ser Asn Phe Pro Asp Leu Ala Ser Glu Arg Ala Gly Thr
 35 40 45
 Thr Ala Phe Gly Thr Val Val Leu Ile Arg Leu Ser Asn His Ile Ala
 50 55 60
 Met Leu Trp Asp Phe Trp Arg Arg Lys Gln Thr Ile Trp Ser Thr Arg
 65 70 75 80
 Thr Leu Asn His His His Leu Val Ser Cys Ile Ser Phe Ile Ile Ile
 85 90 95
 Phe Glu Thr Glu Ser His Ser Val Thr Gln Ala Gly Val Gln Trp Cys
 100 105 110
 Asn Leu Ser Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser
 115 120 125
 Cys Leu Thr Leu Pro Thr Ser Trp Asp Tyr Met Gln Met Pro Pro Cys
 130 135 140
 Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Tyr Trp
 145 150 155 160
 Pro Gly Trp Ser Arg Thr Pro Asp Cys Arg
 165 170

<210> 2330

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2330

Met Pro Val Pro Gly Leu Pro Gln Arg Ala Glu Gln Val Cys Phe Ile
 1 5 10 15
 Phe Gly Leu Leu Leu Leu Glu Cys Leu Thr Leu Phe Val Val Leu Phe

20 25 30
 Pro Trp Tyr Leu Ala Pro Ser Gly Cys Phe Ile Ile Cys Gly Leu Asn
 35 40 45
 Val Glu Asp Ser Ala Gly Glu Pro Val Glu Val Glu Thr Gly Gly Glu
 50 55 60
 Arg Met Leu Leu Gly Cys Gly Asn Gly Phe Leu Lys Cys Trp Asn Phe
 65 70 75 80
 Phe His Gly Pro Leu Ser Ser Val Gly Arg Asn Pro Gln Ala Tyr Pro
 85 90 95
 Val Phe Val Phe Gln Asn Tyr Ser Tyr
 100 105

<210> 2331

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2331

Met Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
 1 5 10 15
 Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
 20 25 30
 Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu
 35 40 45
 Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser
 50 55 60
 Ala Cys Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser
 65 70 75 80

Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr Leu Ser Ala Trp
85 90 95
Gly Leu Ser Ser Val Thr Leu Ser Ala Trp Gly Leu Ser Ser Val Thr
100 105 110
Leu Ser Ala Cys Cys Leu Ser Ser Met Thr Leu Ser Ala Cys Gly Leu
115 120 125
Ser Ser Thr Thr Leu Phe Ala Cys Arg Leu Ser Ser Val Thr Val Ser
130 135 140
Thr Cys Ser Leu Ser Ser Val Thr Leu Ser Ala Cys Gly Leu Ser Arg
145 150 155 160
Val Thr Leu Ser Ala Cys Gly Leu Ser Ser Met Thr Pro Ser Ala Cys
165 170 175
Gly Leu Ser Arg Val Thr Leu Ser Ala Cys His Leu Ser Ser Met Thr
180 185 190
Val Ser Thr Cys Gly Leu Ser Ser Met Thr Leu Phe Ala Cys Gly Leu
195 200 205
Ser Ser Met Thr Leu Ser Ala Cys Arg Leu Ser Asn Val Thr Leu Ser
210 215 220
Asn Phe Pro Leu Ala Ser Ala Pro Gly Glu Val Ala Phe Ser Leu Pro
225 230 235 240
Cys Cys Leu Leu Phe Ser Cys Lys Val Ser Ser Asp Phe Leu Tyr Pro
245 250 255

<210> 2332

<211> 255

<212> PRT

<213> Homo sapiens

<400> 2332

Met Pro Val Glu Ser Val Gly Ala Met Glu Pro Leu Pro Gly Ala Leu
1 5 10 15
Gln Trp Gly Val Gln Ala Thr Leu Glu Arg Gly Arg Gly Pro Leu Trp
20 25 30
Arg Arg Leu Pro Gly Ala Met Gly Ser Arg Gln Lys Ala Ala Thr Glu
35 40 45
Gly Pro Ala Gln Val Arg Ala Ala Arg Pro Lys Thr Leu Tyr Ser Pro
50 55 60
Trp Thr Val Pro Thr Ser Ala His Thr Ala Val Pro Thr Ser Gly Thr
65 70 75 80
Ala Phe Ser Val Cys Arg Asp Pro Ala Ala Gln Ala Ala Ala Val Pro
85 90 95
Leu Ala Ser Trp Ser Arg Met Gly Ala Val Cys Arg Ser Pro Leu Ala
100 105 110
Ala Val Ala Ser Pro Val Pro Met Pro Leu Gly Ser Trp Pro Arg Pro
115 120 125
Arg Arg Cys Ser Trp Thr Ala Lys Thr Ala Pro Val Ser Thr Ser Pro
130 135 140
Trp Cys Ala His Thr Arg Ser Val Gln Ser Leu Gly Leu Gly Gln Pro
145 150 155 160
Gly Ala Val Ala Arg Pro Pro Val Val Gly Ala Leu Trp Ser Asp Val
165 170 175
Gly Leu Val Arg Gly Val Leu Gly Trp His His Ala Arg Pro Arg Thr
180 185 190
Gln Ser Asn Gly Arg Ser Val Thr Cys Ser Pro Ala Leu Ser Ala Pro
195 200 205
Leu Ala Arg Cys Leu Val Pro Val Pro Pro His Ala Arg Ala Ser Ala
210 215 220

<210> 2333

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2333

出証特 2 0 0 4 - 3 0 5 9 6 6 0

130

135

<210> 2334

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2334

Met Asn Phe Asp His Lys Asn Glu Thr Leu Ser Ile Ser Val Gln Pro

1

5

10

15

Gly Glu Gly Asn Lys Ala Ala Phe Asn Asp Met Arg Ala Leu Ser Gly

20

25

30

Gly Glu Arg Ser Phe Ser Thr Val Cys Phe Ile Leu Ser Leu Trp Ser

35

40

45

Ile Ala Glu Ser Pro Phe Arg Cys Leu Asp Glu Phe Asp Val Tyr Met

50

55

60

Asp Met Val Asn Arg Arg Ile Ala Met Asp Leu Ile Leu Lys Met Ala

65

70

75

80

Asp Ser Gln Arg Phe Arg Gln Phe Ile Leu Leu Thr Pro Gln Ser Met

85

90

95

Ser Ser Leu Pro Ser Ser Lys Leu Ile Arg Ile Leu Arg Met Ser Asp

100

105

110

Pro Glu Arg Gly Gln Thr Thr Leu Pro Phe Arg Pro Val Thr Gln Glu

115

120

125

Glu Asp Asp Asp Gln Arg

130

<210> 2335

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2335

Met Arg Lys Gly Ile Gly Thr His Arg Ser Asp Asp Asn Gln Ser Pro
1 5 10 15
Leu Met Met Pro Ser Val Thr Gln Gly Ser Pro Gln Pro Ala Gln Pro
20 25 30
Asp Ser Pro Ala Cys Phe Ser Thr Ala Tyr Leu Gln Gln Ser Asn Cys
35 40 45
Ile Phe Val Thr Ala Asn Tyr Ile Pro Phe Ala Phe Lys Cys Leu His
50 55 60
Phe Ser Tyr Cys Thr Gly Tyr Leu Phe Leu Ser Ala Gln His Pro Val
65 70 75 80
Ser Pro Pro Phe Gly Ser Ser Pro Ser Gln Phe His Val Leu Asn Pro
85 90 95
Phe Leu Leu Leu Val Lys Ile Ile Phe Cys Phe Val
100 105

<210> 2336

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2336

Met Gly Pro Leu Thr Arg Trp Ser Arg Ser Asn Glu Val Thr Arg Ala

1	5	10	15
Ser Pro Asn Pro Ile Cys Trp Cys Asn Tyr Lys Glu Ile Arg Thr Gln			
20	25	30	
Thr Cys Thr Glu Gly Arg Pro Ser Thr Ser Gln Gly Gly Arg Pro Pro			
35	40	45	
Gly Asn Gln Pro Cys Gln Gln Met Met Val Cys Pro Phe Gly Ala Lys			
50	55	60	
Pro Gln Glu Ala Ser Val Leu Ser Leu Thr Leu Gly Ser Leu Leu Ser			
65	70	75	80
Arg Val Arg Trp Leu Gly Leu Ala Cys Trp Arg Leu Thr Gly Pro Trp			
85	90	95	
Gly Lys Ser Ser Trp Ser Lys Val Phe Trp Ala Ser Gln His Asn Pro			
100	105	110	
Gln Pro Thr Val Gln Ala Val Asp Arg Tyr Arg Ser Lys Ser Ser Gln			
115	120	125	
Asp Gln Pro Asn Ser Asp Gln Gln Asn Cys Leu Ala Gly Ser			
130	135	140	

<210> 2337

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2337

Met Ser Ala Cys Pro Ala Gly Thr Ala Gln Arg Pro Arg Pro Gly Arg			
1	5	10	15
Thr Leu Arg Val Thr Thr Leu Pro Thr Ala Pro Leu Ala Ile Leu Pro			
20	25	30	

Asn His Ser Leu Pro Lys Ile Pro Pro Thr Val Thr Pro His Asp Asn
 35 40 45
 Pro Gly Arg Leu Ser Ala Val Ala Pro Ala Pro Gln Pro Arg Ala Leu
 50 55 60
 Ser Pro Pro Arg Phe Cys Pro Pro Pro Leu Ser Ser Leu Cys Thr Ser
 65 70 75 80
 Pro Pro Trp Leu Pro Leu Ser Pro Glu Leu Thr Val Asp Ala Gly Phe
 85 90 95
 Phe Gln Thr Pro Leu Gly Asn Thr Glu Trp Lys Arg Gly Ser Val Arg
 100 105 110
 Lys Cys Leu Val Glu Cys Arg His Cys Gly Ile
 115 120

<210> 2338

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2338

Met Gly Leu Leu Ala Leu Pro Phe Phe Ala Ile Leu Val Met Asp Arg
 1 5 10 15
 Gly Trp Pro Arg Gly Thr Trp Leu Pro Val Thr Ser Gly Arg Leu His
 20 25 30
 Ala Gly Gln Gly Arg Val Ala Leu Pro Leu Ala Gly Gly Gly Met Arg
 35 40 45
 Leu Pro Arg Gly Thr Gln Val Ser Leu His Leu Ala Pro Tyr Pro Val
 50 55 60
 Ser Phe Ala Val Phe Met Cys Ser Asp Ala Leu Pro Leu Gly Ala Ser

65	70	75	80
Lys Leu Gln Cys Pro Leu Pro Pro Gly Arg Gly Asp Pro Gln Ala Pro			
	85	90	95
Ser Ala Gln Arg Cys Thr Cys Leu Val Ala Leu Leu Leu Pro Gly Thr			
	100	105	110
Val Asp Leu Ser Val Cys Leu Phe			
	115	120	

<210> 2339

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2339

Met Glu Gly Glu Ile Trp Gly Leu Ala Thr His Pro Ser Lys Asp Leu			
1	5	10	15
Phe Ile Ser Ala Ser Asn Asp Gly Thr Ala Arg Ile Trp Asp Leu Ala			
	20	25	30
Asp Lys Lys Leu Leu Asn Lys Val Ser Leu Gly His Ala Ala Arg Cys			
	35	40	45
Ala Ala Tyr Ser Pro Asp Gly Glu Met Val Ala Ile Gly Met Lys Asn			
	50	55	60
Gly Glu Phe Val Ile Leu Leu Val Asn Ser Leu Lys Val Trp Gly Lys			
	65	70	75
Lys Arg Asp Arg Lys Ser Ala Ile Gln Asp Ile Arg Ile Ser Pro Asp			
	85	90	95
Asn Arg Phe Leu Ala Val Gly Ser Ser Glu His Thr Val Asp Phe Tyr			
	100	105	110

Asp Leu Thr Gln Gly Thr Asn Leu Asn Arg Ile Gly Tyr Cys Lys Asp
115 120 125
Ile Pro Ser Phe Val Ile Gln Met Asp Phe Ser Ala Asp Gly Lys Tyr
130 135 140
Ile Gln Val Ser Thr Gly Ala Tyr Lys Arg Gln Val His Glu Val Pro
145 150 155 160
Leu Gly Lys Gln Val Thr Glu Ala Val Val Ile Glu Lys Ile Thr Trp
165 170 175
Ala Ser Trp Thr Ser Val Leu Gly Asp Glu Val Ile Gly Ile Trp Pro
180 185 190
Arg Asn Ala Asp Lys Ala Asp Val Asn Cys Ala Cys Val Thr His Ala
195 200 205
Gly Leu Asn Ile Val Thr Gly Asp Asp Phe Gly Leu Val Lys Leu Phe
210 215 220
Asp Phe Pro Cys Thr Glu Lys Phe Ala Lys His Lys Arg Tyr Phe Gly
225 230 235 240
His Ser Ala His Val Thr Asn Ile Arg Phe Ser Tyr Asp Asp Lys Tyr
245 250 255
Val Val Ser Thr Gly Gly Asp Asp Cys Ser Val Phe Val Trp Arg Cys
260 265 270
Leu

<210> 2340

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2340

Met Gln Gln Asn Glu Ala Ala Gln Gln Glu Val Pro Phe Gly Pro Gln
 1 5 10 15
 Thr Thr Ala Val Leu Trp Asp His Lys Gly Gly Val Ala His Ala Val
 20 25 30
 Asn His Gln Ala Asn Gly Ser Val His Leu Leu His Gln Asp Gly Val
 35 40 45
 Pro Leu Val Val Ile His Met Ala Leu Gly Gly Lys Val Ser Ile Glu
 50 55 60
 Thr Thr Gln Thr Val Val Phe Gln Leu Gly His Ser Thr Gly Gln Leu
 65 70 75 80
 Gln Arg Lys Ser Lys Gln Pro Ser Ala Lys Pro Arg Ser Pro Cys Lys
 85 90 95
 Pro Ala Lys Arg Leu Pro Val
 100

<210> 2341

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2341

Met Gly Val Pro Arg Ser Phe Arg Gly Ser Pro Arg Val Pro Pro Pro
 1 5 10 15
 Gly Pro Pro Arg Trp Thr Ser Leu Arg Pro Leu Pro Ser Leu Asp His
 20 25 30
 Ile Ser Ala Pro Thr Val Pro Asp Ile Leu Ala Leu His Ala Thr Ser
 35 40 45

Arg Pro Met Ile Met Pro Gln Phe Pro Ser Pro Leu Arg Gln Pro Ser
 50 55 60
 Pro Cys Arg Leu Pro Pro Ser Glu Arg Val Gln Leu Gln Leu Ser Pro
 65 70 75 80
 Gly Ser Leu Pro Ala Ser Gly Pro His Leu Thr Pro Ala Ser Arg Phe
 85 90 95
 Pro Leu Pro Ala Arg Leu Asn Pro Ala Ala Ser Ala Pro Cys Leu Val
 100 105 110
 Pro Ser Ala Trp Pro Leu Pro Pro Ala Ala Gly Ser Gly Arg Arg
 115 120 125

<210> 2342

<211> 289

<212> PRT

<213> Homo sapiens

<400> 2342

Met Gly Cys Ile Gly Ser Arg Thr Val Gly Asn Glu Val Ile Ala Val
 1 5 10 15
 Asp Trp Lys Gly Leu Lys Asp Val Asp Gln Ile Asn Met Asp Ser Thr
 20 25 30
 Ser Ser Leu His Gly Ser Ser Leu His Arg Pro Ser Thr Glu Gln Thr
 35 40 45
 Arg Thr Asp Phe Ser Trp Asp Gly Ile Asn Leu Ser Met Glu Asp Thr
 50 55 60
 Thr Ser Ile Leu Pro Lys Leu Lys Arg Asn Ser Asn Ala Tyr Gly Ile
 65 70 75 80
 Gly Ala Leu Ala Lys Ser Ser Phe Ser Gly Ile Ser Arg Ser Met Lys

85	90	95
Asp His Val Thr Lys Pro Thr Ala Met Gly Gln Gly Arg Val Ala His		
100	105	110
Met Ile Glu Trp Gln Gly Trp Gly Lys Thr Pro Ala Val Gln Pro Gln		
115	120	125
His Ser His Glu Ser Val Arg Arg Asp Thr Asp Ala Tyr Ser Asp Leu		
130	135	140
Ser Asp Gly Glu Lys Glu Ala Arg Phe Leu Ala Gly Val Met Glu Gln		
145	150	155
160		
Phe Ala Ile Ser Glu Ala Thr Leu Met Ala Trp Ser Ser Met Asp Gly		
165	170	175
Glu Asp Met Ser Val Asn Ser Thr Gln Glu Pro Leu Gly Cys Asn Tyr		
180	185	190
Ser Asp Asn Tyr Gln Glu Leu Met Asp Ser Gln Asp Ala Leu Ala Gln		
195	200	205
Ala Pro Met Asp Gly Leu Thr Leu Thr Cys Pro Arg Val Cys Thr Val		
210	215	220
Trp Gly Arg Gln Met Pro Gly Lys Pro Ala Ile Ser Pro Ser Leu Pro		
225	230	235
240		
Leu Arg Pro Gln Asp Pro Ile Leu Gly Leu His Leu Met Thr His Asn		
245	250	255
Pro Ala Cys Met Lys Trp Asp Leu Pro Asn Gln Leu Gln Asp Thr Leu		
260	265	270
Leu Trp Ser Leu His Leu Cys Trp Gly Glu Thr Leu Thr Gly Leu Arg		
275	280	285
Gly		

<210> 2343

<211> 118

<212> PRT

<213> Homo sapiens

<400> 2343

Met Cys Gln His Glu Gly Arg Leu Gln Phe Ile His Glu Arg Gln Glu

1 5 10 15

Lys Glu Asn Ser Asn Leu Glu Ser Ser Val Gly His Gln Ala Leu Thr

20 25 30

Phe Pro His Leu Ala His Tyr Pro Val Lys Ala Val Ala Ala His Leu

35 40 45

Val Ala Leu His Gly Thr Leu Pro Lys Ala Ser Ser Ser Ile Leu Gly

50 55 60

Leu Gln Arg Ile Gln Val Pro Ser Ile Gln Trp Gly Ser Ser Thr Ser

65 70 75 80

Glu Val Pro Leu Pro Pro Ser Ser Ala Ser Cys Leu Ala Ile Pro Ser

85 90 95

Ile Pro Phe Gly Asp Asp Tyr Leu Glu Asn Lys Glu Arg Tyr Gly Met

100 105 110

Gly Phe Pro Ile Val Cys

115

<210> 2344

<211> 1005

<212> PRT

<213> Homo sapiens

<400> 2344

Met	Glu	Lys	Gln	Arg	Ala	Leu	Val	Ala	Ala	Lys	Asp	Gly	Asp	Val	Ala
1				5					10					15	
Thr	Leu	Glu	Arg	Leu	Leu	Glu	Ala	Gly	Ala	Leu	Gly	Pro	Gly	Ile	Thr
			20					25					30		
Asp	Ala	Leu	Gly	Ala	Gly	Leu	Val	His	His	Ala	Thr	Arg	Ala	Gly	His
		35				40						45			
Leu	Asp	Cys	Val	Lys	Phe	Leu	Val	Gln	Arg	Ala	Gln	Leu	Pro	Gly	Asn
	50					55					60				
Gln	Arg	Ala	His	Asn	Gly	Ala	Thr	Pro	Ala	His	Asp	Ala	Ala	Ala	Thr
65				70					75					80	
Gly	Ser	Leu	Ala	Glu	Leu	Cys	Trp	Leu	Val	Arg	Glu	Gly	Gly	Cys	Gly
			85					90					95		
Leu	Gln	Asp	Gln	Asp	Ala	Ser	Gly	Val	Ser	Pro	Leu	His	Leu	Ala	Ala
		100					105					110			
Arg	Phe	Gly	His	Pro	Val	Leu	Val	Glu	Trp	Leu	Leu	His	Glu	Gly	His
	115					120					125				
Ser	Ala	Thr	Leu	Glu	Thr	Arg	Glu	Gly	Ala	Arg	Pro	Leu	His	His	Ala
	130					135					140				
Ala	Val	Ser	Gly	Asp	Leu	Thr	Cys	Leu	Lys	Leu	Leu	Thr	Ala	Ala	His
145				150					155				160		
Gly	Ser	Ser	Val	Asn	Arg	Arg	Thr	Arg	Ser	Gly	Ala	Ser	Pro	Leu	Tyr
			165					170					175		
Leu	Ala	Cys	Gln	Glu	Gly	His	Leu	His	Leu	Ala	Gln	Phe	Leu	Val	Lys
		180					185					190			
Asp	Cys	Gly	Ala	Asp	Val	His	Leu	Arg	Ala	Leu	Asp	Gly	Met	Ser	Ala
	195						200					205			
Leu	His	Ala	Ala	Ala	Ala	Arg	Gly	His	Tyr	Ser	Leu	Val	Val	Trp	Leu
	210					215					220				

Val Thr Phe Thr Asp Ile Gly Leu Thr Ala Arg Asp Asn Glu Gly Ala
225 230 235 240
Thr Ala Leu His Phe Ala Ala Arg Gly Gly His Thr Pro Ile Leu Asp
245 250 255
Arg Leu Leu Leu Met Gly Thr Pro Ile Leu Arg Asp Ser Trp Gly Gly
260 265 270
Thr Pro Leu His Asp Ala Ala Glu Asn Gly Gln Met Glu Cys Cys Gln
275 280 285
Thr Leu Val Ser His His Val Asp Pro Ser Leu Arg Asp Glu Asp Gly
290 295 300
Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly His Arg Asp Cys Ala
305 310 315 320
Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro Leu Leu Met Thr Pro
325 330 335
Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu Ala Thr Arg Arg Ser
340 345 350
Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro Gly Asn Pro Ser Pro
355 360 365
Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro Asp Gln Pro Leu Pro
370 375 380
Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg Ile Ile Thr Ser Ala
385 390 395 400
Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu Ala Gly Asp Thr Ser
405 410 415
Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu Pro Ser Gly Asp Ile
420 425 430
Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly Gln Pro Ile Pro Glu
435 440 445
Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln Ala Arg Leu Gly Ala

450 455 460
Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly Ser Ser Gly Pro Thr
465 470 475 480
Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His Gln Ala Ile Leu Gly
 485 490 495
Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu Val Tyr Leu Glu Lys
 500 505 510
Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys Gln Glu Tyr Glu Ser
 515 520 525
Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala Leu Leu Pro Glu Pro
 530 535 540
Leu Val Ser Ile Thr Val Asn Ser His Phe Leu Pro Arg Ala Pro Gly
545 550 555 560
Leu Glu Val Glu Glu Ala Ser Ile Pro Ala Ala Glu Pro Ala Gly Ser
 565 570 575
Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln Pro Leu Pro Phe Trp
 580 585 590
Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu Ser Leu Leu Leu Lys
 595 600 605
Gly Met His Gly Leu Val Gln Gly Asp Glu Lys Pro Ser Thr Arg Pro
 610 615 620
Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser Pro Pro Arg Ser Glu
625 630 635 640
Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser Val Arg Thr Leu Arg
 645 650 655
Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys Gly Phe Asn Pro Gly
 660 665 670
Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys Leu Ser Gly Cys Trp
 675 680 685

Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala Ser Gly Glu Pro Arg
690 695 700

Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly Ile Ser Cys Glu Glu
705 710 715 720

Val Pro Pro Glu Ala Gly Ala Ala Ala Gly Pro Asp Leu Ala Ser Leu
725 730 735

Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser His Trp Arg Arg Ser
740 745 750

Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys Arg Thr Leu Gly Ala
755 760 765

Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala Arg Ser Pro Gly Pro
770 775 780

Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly His Leu Trp Gln Gln
785 790 795 800

Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp Lys Ala Ile Met Ala
805 810 815

His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser Arg Gln Pro Arg Gly
820 825 830

Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val Asp Gly Ala Pro Val
835 840 845

Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met Leu Gly Tyr Phe Gln
850 855 860

Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg Lys Leu Arg His Leu
865 870 875 880

Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr His Gly Trp Glu Ala
885 890 895

Val Arg Ala Phe His Lys Ala Val Thr Asp Glu Val Ala Ala Gly Arg
900 905 910

Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys Ala Arg Phe Phe Gly

915	920	925
Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro Gly Arg Lys Ser Gly		
930	935	940
Leu Thr Leu Leu Gly Pro Leu Pro His Ala Thr Val Pro Cys Ser Gly		
945	950	955
Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg Ser Gln Gln Gly Ser		
965	970	975
Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn Arg Ser Phe Ala Phe		
980	985	990
Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe Gly Glu		
995	1000	1005

<210> 2345

<211> 145

<212> PRT

<213> Homo sapiens

<400> 2345

Met Gly Pro Trp Pro Arg Asp Trp Leu Gly Lys Gly Trp Arg Leu Gly
1 5 10 15
Ser Cys Glu Ala Arg Ala Gly Ala Lys Glu Val Ser Val Ile Arg His
20 25 30
Gly Ala Pro Asn Pro Ala Gln Ser His Leu His Val Gln Ala Arg Ala
35 40 45
Gln Val His Ser Glu Asp Gly His Ser Leu Pro Pro Val Val Asp Gly
50 55 60
Glu Asp Glu Val Leu Ser Leu Leu Val Phe Val Gln Asp Ser Gln Glu
65 70 75 80

Cys Cys Arg Gln Ala Val Gln Gly Arg Gln Gly Arg Gly Val Thr Trp
 85 90 95
 Gly Leu Gly Leu Pro Ser Tyr His Leu Arg Thr Leu Leu Ser Pro Val
 100 105 110
 Cys Val Pro Ala Arg Asp Gln Arg Ala Pro Arg Lys Cys Cys Glu Ala
 115 120 125
 Val Leu Ala Cys Pro Leu Val Glu Thr Leu Val Thr Thr Leu Leu Thr
 130 135 140
 Arg
 145

<210> 2346

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2346

Met Met Cys Met Met Thr Gly Ser Asp Val Arg Asp Asp Arg Leu Arg
 1 5 10 15
 Arg Cys Val Ala Thr Gly Ser Asp His Val Cys Asp Asp Arg Leu Arg
 20 25 30
 Cys Ala Leu Met Thr Gly Ser Asp Val Cys Asp Asp Trp Leu Arg Cys
 35 40 45
 Ser Leu Met Thr Ser Ser Asp Val Cys Asp Asp Pro Leu Ser Ile Gln
 50 55 60
 Cys Ala Ile Ala Leu Ala Arg Ser Arg Ser Arg Leu Pro Thr Arg Ser
 65 70 75 80
 Gln Leu Pro Ala Val Pro Ala Ser Ala Ala Arg Trp Arg Gln Gly Pro

	85		90		95
His	Glu	Arg	Arg	Ala	Phe
Pro	Cys	Gly	Cys	Ser	Leu
Ala	Gly	Ser	Pro		
100		105		110	
Leu	Arg	Gly	Leu	Leu	Arg
Pro	Ala	Ser	Pro	Ser	Gln
Cys	Ile	Val	Thr		
115		120		125	
Thr	Thr	Leu	Leu	Ser	Ser
Asn	Lys	Gln	Val	Arg	Cys
Arg	Trp	Lys	Cys		
130		135		140	
Gly	Val	Gly	Val	Trp	Val
Gly	Glu	Val	Pro	Gln	Ala
Ser	Leu	Ser	Pro		
145		150		155	
160					
Cys	Ala	Ala	Ala	Gly	Gly
Tyr	Ala	Gly	Gly	Thr	Glu
Leu					
165		170			

<210> 2347

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2347

Met	Gly	Phe	His	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Leu	Thr	Ser
1				5					10					15	
Gly	Asp	Leu	Pro	Leu	Leu	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Thr	Val	Met
				20				25					30		
Ser	His	Arg	Thr	Trp	Pro	Gln	Thr	Phe	Phe	Phe	Leu	Ser	Lys	Glu	Ile
				35				40					45		
Val	Ser	Trp	Ile	Thr	Ser	His	Lys	Ala	Ser	Gln	Tyr	Val	Lys	Gln	Ile
				50				55				60			
Ile	Val	Leu	Glu	Val	Thr	Thr	Trp	Asn	Ser	Val	His	Gly	Asp	Ser	Ser
65				70				75						80	

Pro Cys Thr Pro His Thr Glu Thr Leu Gln Leu Met Leu Pro Thr Ser
 85 90 95
 Val Ser Lys Glu Thr Leu Asp Lys Ser Ser Pro Phe Ile His Arg Trp
 100 105 110
 Arg His Tyr Cys
 115

<210> 2348

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2348

Met Thr Cys Ser Lys Thr Lys Thr Asn Pro Thr Phe Lys Cys Lys Thr
 1 5 10 15
 Asp Phe Lys Ala Ile Phe Phe Phe Leu Phe Phe Ile Glu Thr Glu Ser
 20 25 30
 Arg Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Ser Ser Leu
 35 40 45
 Gln Pro Pro Pro Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro
 50 55 60
 Ser Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Leu Val Thr Phe Cys
 65 70 75 80
 Ile Phe Ser Arg Asp Arg Val Ser Ser Cys Trp Pro Gly Gly Leu Lys
 85 90 95
 Leu Leu Thr Ser Gly Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly
 100 105 110
 Val Thr Gly Met Ser His His Thr Trp Pro

115

120

<210> 2349

<211> 1163

<212> PRT

<213> Homo sapiens

<400> 2349

Met Glu Arg Gly Ala Arg Glu Met Ala Ala Pro Gly Asp Cys Pro Ala
 1 5 10 15
 Gly Lys Ala Ala Gly Thr Ser Arg Pro Thr Arg Ser Leu Ser Thr Ala
 20 25 30
 Gln Leu Val Gln Pro Ser Gly Gly Leu Gln Ala Ser Val Ile Ser Asn
 35 40 45
 Ile Val Leu Met Lys Gly Gln Ala Lys Gly Leu Gly Phe Ser Ile Val
 50 55 60
 Gly Gly Lys Asp Ser Ile Tyr Gly Pro Ile Gly Ile Tyr Val Lys Thr
 65 70 75 80
 Ile Phe Ala Gly Gly Ala Ala Ala Ala Asp Gly Arg Leu Gln Glu Gly
 85 90 95
 Asp Glu Ile Leu Glu Leu Asn Gly Glu Ser Met Ala Gly Leu Thr His
 100 105 110
 Gln Asp Ala Leu Gln Lys Phe Lys Gln Ala Lys Lys Gly Leu Leu Thr
 115 120 125
 Leu Thr Val Arg Thr Arg Leu Thr Ala Pro Pro Ser Leu Cys Ser His
 130 135 140
 Leu Ser Pro Pro Leu Cys Arg Ser Leu Ser Ser Ser Thr Cys Ile Thr
 145 150 155 160

Lys Asp Ser Ser Ser Phe Ala Leu Glu Ser Pro Ser Ala Pro Ile Ser
 165 170 175
 Thr Ala Lys Pro Asn Tyr Arg Ile Met Val Glu Val Ser Leu Gln Lys
 180 185 190
 Glu Ala Gly Val Gly Leu Gly Ile Gly Leu Cys Ser Val Pro Tyr Phe
 195 200 205
 Gln Cys Ile Ser Gly Ile Phe Val His Thr Leu Ser Pro Gly Ser Val
 210 215 220
 Ala His Leu Asp Gly Arg Leu Arg Cys Gly Asp Glu Ile Val Glu Ile
 225 230 235 240
 Ser Asp Ser Pro Val His Cys Leu Thr Leu Asn Glu Val Tyr Thr Ile
 245 250 255
 Leu Ser His Cys Asp Pro Gly Pro Val Pro Ile Ile Val Ser Arg His
 260 265 270
 Pro Asp Pro Gln Val Ser Glu Gln Gln Leu Lys Glu Ala Val Ala Gln
 275 280 285
 Ala Val Glu Asn Thr Lys Phe Gly Lys Glu Arg His Gln Trp Ser Leu
 290 295 300
 Glu Gly Val Lys Arg Leu Glu Ser Ser Trp His Gly Arg Pro Thr Leu
 305 310 315 320
 Glu Lys Glu Arg Glu Lys Asn Ser Ala Pro Pro His Arg Arg Ala Gln
 325 330 335
 Lys Val Met Ile Arg Ser Ser Ser Asp Ser Ser Tyr Met Ser Gly Ser
 340 345 350
 Pro Gly Gly Ser Pro Gly Ser Gly Ser Ala Glu Lys Pro Ser Ser Asp
 355 360 365
 Val Asp Ile Ser Thr His Ser Pro Ser Leu Pro Leu Ala Arg Glu Pro
 370 375 380
 Val Val Leu Ser Ile Ala Ser Ser Arg Leu Pro Gln Glu Ser Pro Pro

385 390 395 400
Leu Pro Glu Ser Arg Asp Ser His Pro Pro Leu Arg Leu Lys Lys Ser
 405 410 415
Phe Glu Ile Leu Val Arg Lys Pro Met Ser Ser Lys Pro Lys Pro Pro
 420 425 430
Pro Arg Lys Tyr Phe Lys Ser Asp Ser Asp Pro Gln Lys Ser Leu Glu
 435 440 445
Glu Arg Glu Asn Ser Ser Cys Ser Ser Gly His Thr Pro Pro Thr Cys
 450 455 460
Gly Gln Glu Ala Arg Glu Leu Leu Pro Leu Leu Leu Pro Gln Glu Asp
465 470 475 480
Thr Ala Gly Arg Ser Pro Ser Ala Ser Ala Gly Cys Pro Gly Pro Gly
 485 490 495
Ile Gly Pro Gln Thr Lys Ser Ser Thr Glu Gly Glu Pro Gly Trp Arg
 500 505 510
Arg Ala Ser Pro Val Thr Gln Thr Ser Pro Ile Lys His Pro Leu Leu
 515 520 525
Lys Arg Gln Ala Arg Met Asp Tyr Ser Phe Asp Thr Thr Ala Glu Asp
 530 535 540
Pro Trp Val Arg Ile Ser Asp Cys Ile Lys Asn Leu Phe Ser Pro Ile
545 550 555 560
Met Ser Glu Asn His Gly His Met Pro Leu Gln Pro Asn Ala Ser Leu
 565 570 575
Asn Glu Glu Glu Gly Thr Gln Gly His Pro Asp Gly Thr Pro Pro Lys
 580 585 590
Leu Asp Thr Ala Asn Gly Thr Pro Lys Val Tyr Lys Ser Ala Asp Ser
 595 600 605
Ser Thr Val Lys Lys Gly Pro Pro Val Ala Pro Lys Pro Ala Trp Phe
 610 615 620

Arg Gln Ser Leu Lys Gly Leu Arg Asn Arg Ala Ser Asp Pro Arg Gly
625 630 635 640
Leu Pro Asp Pro Ala Leu Ser Thr Gln Pro Ala Pro Ala Ser Arg Glu
 645 650 655
His Leu Gly Ser His Ile Arg Ala Ser Ser Ser Ser Ser Ser Ile Arg
 660 665 670
Gln Arg Ile Ser Ser Phe Glu Thr Phe Gly Ser Ser Gln Leu Pro Asp
 675 680 685
Lys Gly Ala Gln Arg Leu Ser Leu Gln Pro Ser Ser Gly Glu Ala Ala
 690 695 700
Lys Pro Leu Gly Lys His Glu Glu Gly Arg Phe Ser Gly Leu Leu Gly
705 710 715 720
Arg Gly Ala Ala Pro Thr Leu Val Pro Gln Gln Pro Glu Gln Val Leu
 725 730 735
Ser Ser Gly Ser Pro Ala Ala Ser Glu Ala Arg Asp Pro Gly Val Ser
 740 745 750
Glu Ser Pro Pro Pro Gly Arg Gln Pro Asn Gln Lys Thr Leu Pro Pro
 755 760 765
Gly Pro Asp Pro Leu Leu Arg Leu Leu Ser Thr Gln Ala Glu Glu Ser
 770 775 780
Gln Gly Pro Val Leu Lys Met Pro Ser Gln Arg Ala Arg Ser Phe Pro
785 790 795 800
Leu Thr Arg Ser Gln Ser Cys Glu Thr Lys Leu Leu Asp Glu Lys Thr
 805 810 815
Ser Lys Leu Tyr Ser Ile Ser Ser Gln Val Ser Ser Ala Val Met Lys
 820 825 830
Ser Leu Leu Cys Leu Pro Ser Ser Ile Ser Cys Ala Gln Thr Pro Cys
 835 840 845
Ile Pro Lys Glu Gly Ala Ser Pro Thr Ser Ser Ser Asn Glu Asp Ser

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Asp Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala Ser Glu
 1090 1095 1100
 Gln Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu Gly Gly
 1105 1110 1115 1120
 Thr Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile Ile Lys
 1125 1130 1135
 Ala Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys Ser Leu
 1140 1145 1150
 Gln Ser Lys Glu Thr Thr Ala Ala Gly Asp Ser
 1155 1160

<210> 2350

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2350

Met Ser Asn Lys Arg Ser Asn Ser Phe Arg Gln Ala Ile Leu Gln Gly
 1 5 10 15
 Asn Arg Arg Leu Ser Ser Lys Ala Leu Leu Glu Glu Lys Gly Leu Ser
 20 25 30
 Leu Ser Gln Arg Leu Ile Arg His Val Ala Tyr Glu Thr Leu Pro Arg
 35 40 45
 Glu Ile Asp Arg Lys Trp Tyr Tyr Asp Ser Tyr Thr Cys Cys Pro Pro
 50 55 60
 Pro Trp Phe Met Ile Thr Val Thr Leu Leu Glu Val Ala Phe Phe Leu
 65 70 75 80
 Tyr Asn Gly Val Ser Leu Gly Gln Phe Val Leu Gln Val Thr His Pro

	85	90	95
Arg Tyr Leu Lys Asn Ser Leu Val Tyr His Pro Gln Leu Arg Ala Gln			
100	105	110	
Val Trp Arg Tyr Leu Thr Tyr Ile Phe Met His Ala Gly Ile Glu His			
115	120	125	
Leu Gly Leu Asn Val Val Leu Gln Leu Leu Val Gly Val Pro Leu Glu			
130	135	140	
Met Val His Gly Ala Thr Arg Ile Gly Leu Val Tyr Val Ala Gly Val			
145	150	155	160
Val Ala Gly Ser Leu Ala Val Ser Val Ala Asp Met Thr Ala Pro Val			
165	170	175	
Val Gly Ser Ser Gly Gly Val Tyr Ala Leu Val Ser Ala His Leu Ala			
180	185	190	
Asn Ile Val Met Asn Trp Ser Gly Met Lys Cys Gln Phe Lys Leu Leu			
195	200	205	
Arg Met Ala Val Ala Leu Ile Cys Met Ser Met Glu Phe Gly Arg Ala			
210	215	220	
Val Trp Leu Arg Phe His Pro Ser Ala Tyr Pro Pro Cys Pro His Pro			
225	230	235	240
Ser Phe Val Ala His Leu Gly Gly Val Ala Val Gly Ile Thr Leu Gly			
245	250	255	
Val Val Val Leu Arg Asn Tyr Glu Gln Arg Leu Gln Asp Gln Ser Leu			
260	265	270	
Trp Trp Ile Phe Val Ala Met Tyr Thr Val Phe Val Leu Phe Ala Val			
275	280	285	
Phe Trp Asn Ile Phe Ala Tyr Thr Leu Leu Asp Leu Lys Leu Pro Pro			
290	295	300	
Pro Pro			
305			

<210> 2351

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2351

Met Val Gly Phe Pro Asn Ala Gly Lys Ser Ser Leu Leu Arg Ala Ile

1 5 10 15

Ser Asn Ala Arg Pro Ala Val Ala Ser Tyr Pro Phe Thr Thr Leu Lys

20 25 30

Pro His Val Gly Ile Val His Tyr Glu Gly His Leu Gln Ile Ala Val

35 40 45

Ala Asp Ile Pro Gly Ile Ile Arg Gly Ala His Gln Asn Arg Gly Leu

50 55 60

Gly Ser Ala Phe Leu Arg His Ile Glu Arg Cys Arg Phe Leu Leu Phe

65 70 75 80

Val Val Asp Leu Ser Gln Pro Glu Pro Trp Thr Gln Val Asp Asp Leu

85 90 95

Lys Tyr Glu Leu Glu Met Tyr Glu Lys Gly Leu Ser Ala Arg Pro His

100 105 110

Ala Ile Val Ala Asn Lys Ile Asp Leu Pro Glu Ala Gln Ala Asn Leu

115 120 125

Ser Gln Leu Arg Asp His Leu Gly Gln Glu Val Ile Val Leu Ser Ala

130 135 140

Leu Thr Gly Glu Asn Leu Glu Gln Leu Leu Leu His Leu Lys Val Leu

145 150 155 160

Tyr Asp Ala Tyr Ala Glu Ala Glu Leu Gly Gln Gly Arg Gln Pro Leu

165

170

175

Arg Trp

<210> 2352

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2352

Met Tyr Gly Ala Thr Gln Ser Gln Ser Asp Met Cys Asp Gln Asp Gln

1

5

10

15

Cys Ile Gln Ser Thr Lys Phe Val Leu Gln Ala Ala Ala Thr Pro Leu

20

25

30

Leu Gln Ser Glu Pro Ser Leu Thr Ser Asp Glu Leu His Leu Pro Gly

35

40

45

Lys Pro Gly Leu Gly Thr Pro Cys Ala Ser Leu Thr Leu Gly Pro Pro

50

55

60

Thr Pro Pro Ala Ser Met Pro Asn Leu Ala Glu Ala Thr Leu Ala Asp

65

70

75

80

Val Met Pro Arg Lys Asp Glu His Met Gly His Gln Phe Leu Thr Pro

85

90

95

Asp Glu Ala Pro Ser Pro Pro Arg Leu Leu Ala Ala Gly Ser Pro Leu

100

105

110

Ala His Ser Arg Thr Met His Val Leu Gly Leu Ala Ser Gln Asp Ser

115

120

125

Leu His Glu Asp Ser Val Arg Gly Leu Val Lys Leu Ser Ser Val

130

135

140

<210> 2353

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2353

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Met Ala Phe Gln Ser Leu Asp Ile Phe Ile Ile Asn Thr Asn Ile Pro
  1           5           10           15
Leu His Lys Gly Thr Ser Ser Asn Leu Arg Leu Glu Gly Pro Pro Ala
          20           25           30
Tyr Val Phe Leu Leu Ile Leu Ser Tyr Leu Pro Ser Ser Pro His Asn
          35           40           45
Ser His Ser Val Thr Lys Ser Arg Arg Phe Tyr Leu Leu Asn Leu Ser
          50           55           60
Tyr Pro Ser Leu Leu Ser His Ser Pro Asp Thr Thr Ile Asn Gln Ala
          65           70           75           80
Thr Ile Thr Ser Ser Cys Leu Thr Ala Asn Ala Ser Arg Leu Ala Ser
          85           90           95
Ala Phe Pro Trp Pro Cys Asp Asn Leu His Ser Ser Gln Gly Pro Lys
          100          105          110
Gln Ser Leu Gln Lys Val His Pro Asn Arg Ser Leu Asn Phe Gln Trp
          115          120          125
Leu Pro Leu Leu Cys Gly Leu Thr Met Ile Lys Ala Arg Pro Gly Val
          130          135          140
Gly Ala His Ala Cys Asn Pro Ser Thr Leu Gly Gly Arg Gly Gly Arg
          145          150          155          160
Ile Thr Thr Leu Gly Asp Pro Asp His Ser Pro

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165

170

<210> 2354

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2354

Met Val Glu Leu Val Ser Glu Ala Trp Tyr Ser Ala Ala Glu Ala Arg

1

5

10

15

Gln Gly Cys His Gly Asp Phe His Ser Ile Trp Met Ala Asn Cys Leu

20

25

30

His Val Gly Lys Pro His Gly Thr Asp Ser Phe Leu Lys Gly Ser Pro

35

40

45

Ser Ile Ser Glu Phe Gly Asp Phe Ile Ser Tyr Ser Trp Asn Gln Asn

50

55

60

Glu Cys Gly Val Ile Ile Tyr Ile Phe Phe Gly Thr Glu Ser Arg Ser

65

70

75

80

Val Ala Gln Ala Gly Val Gln Trp Cys Asp Leu Val Ser Leu Gln Pro

85

90

95

Leu Pro Pro Gly Phe Lys

100

<210> 2355

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2355

Met Pro Ser Cys Asp Pro Gly Pro Gly Pro Ala Cys Leu Pro Thr Lys
 1 5 10 15
 Thr Phe Arg Ser Tyr Leu Pro Arg Cys His Arg Thr Tyr Ser Cys Val
 20 25 30
 His Cys Arg Ala His Leu Ala Lys His Asp Glu Leu Ile Ser Lys Ser
 35 40 45
 Phe Gln Gly Ser His Gly Arg Ala Tyr Leu Phe Asn Ser Val Val Asn
 50 55 60
 Val Gly Cys Gly Pro Ala Glu Gln Arg Leu Leu Leu Thr Gly Leu His
 65 70 75 80
 Ser Val Ala Asp Ile Phe Cys Glu Ser Cys Lys Thr Thr Leu Gly Trp
 85 90 95
 Lys Tyr Glu Gln Ala Phe Glu Thr Ser Gln Lys Tyr Lys Glu Gly Lys
 100 105 110
 Tyr Ile Ile Glu Met Ser His Met Val Lys Asp Asn Gly Trp Asp
 115 120 125

<210> 2356

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2356

Met Ala Asn Asp Leu Cys Met Trp Gly Ala Asp Ile Gln Ser Val Pro
 1 5 10 15
 Gly Pro Leu Trp His His Phe Cys Gly Arg Ala Gly Ser Pro Cys Thr

20	25	30
Gly Leu Cys Cys Phe Cys Arg Pro Gly Phe Gln Gly Ser Cys Leu Cys		
35	40	45
Leu Ala Leu Leu Phe Ser Ala Phe Pro Arg Tyr Phe Ser Asp Trp Ser		
50	55	60
Leu Pro Ser Leu Pro Leu Pro Ser Gln Asp Cys Gly Pro Leu Gln Val		
65	70	75
Leu Gln Met Asp Pro Ser Trp Leu Met Lys Val Phe Pro Ser His Leu		
85	90	95
Glu Pro Thr Pro Ser Gly Ser Lys Ala Ala Gly Pro Gln Leu Pro Thr		
100	105	110
Leu Val Gln Leu Cys Ser Cys Trp Val Glu Trp Gly Arg Gly Arg Trp		
115	120	125
Ser Ser Cys Leu Tyr Ala Ala Gly Phe Gly Leu Leu Val Phe Tyr		
130	135	140

<210> 2357

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2357

Met Gly Phe Tyr His Val Gly Gln Ser Gly Leu Glu Leu Leu Ser Ser		
1	5	10
Arg Asp Leu Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Pro Gly Val		
20	25	30
Ser His Cys Ala Arg Pro Arg Leu Val Ile Phe Lys Met Gly Leu Lys		
35	40	45

Leu Arg Ala Gly Leu Gln Glu Glu Asn Glu Leu Arg Ser Asp Phe Arg
 50 55 60
 Cys Trp Asn Pro Ser Ala Ser Leu Pro Ala Thr Leu Gln Phe Leu Ala
 65 70 75 80
 Ala Ser Ser Ser Phe Ala Val Cys Pro Trp Phe Ala Val Phe Val Ile
 85 90 95
 Arg Asn Leu Cys Tyr Glu Ile Ser Gly Ile His Trp Leu Leu Leu Ser
 100 105 110
 Asn Phe Val
 115

<210> 2358

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2358

Met Arg Lys Glu Ala Val Pro Ser Arg Gly Leu Ser Cys Val Arg Gly
 1 5 10 15
 Gly Ala Ala Ala Val Ala Gly Val Ser Arg His Pro Thr Gln Gly Ser
 20 25 30
 Phe Gln Ile Arg His Leu Phe Thr Arg Pro Pro Tyr Ser Phe Phe Ser
 35 40 45
 Pro Arg Leu Leu His Val Gly Val Gln Cys Leu Ala Leu Thr Ser Pro
 50 55 60
 His Ser Ser Trp Trp Gly Phe Glu Leu Gly Val Pro Ser Ala Pro His
 65 70 75 80
 Ser Pro Leu Thr Ala Pro Thr Pro Arg Lys Pro Pro Leu Pro Pro Leu

85 90 95
 Phe Val Ser Ser Phe His Ser Leu Gly Gly Gln Ala Ala Ala Pro Val
 100 105 110
 Ala Ala Pro Ala Leu Phe His Pro Pro Leu Leu Ser Gln Pro Glu Leu
 115 120 125
 Tyr Arg Glu Val Trp Ala Pro His Leu Gly Pro Cys His Ala Cys Ser
 130 135 140
 Gln Lys His Pro Arg Gly Ser Pro Asp Ser Leu Leu Pro Trp Ala Leu
 145 150 155 160
 Leu Arg Ser Pro Phe Ile Val Ala Phe Gly Val Cys Leu Met Pro Ile
 165 170 175
 Pro Cys Ser

<210> 2359

<211> 920

<212> PRT

<213> Homo sapiens

<400> 2359

Met Gly Arg Gly Ala Gly Arg Glu Tyr Ser Pro Ala Ala Thr Thr Ala
 1 5 10 15
 Glu Asn Gly Gly Gly Lys Lys Lys Gln Lys Glu Lys Glu Leu Asp Glu
 20 25 30
 Leu Lys Lys Glu Val Val Ile Val Thr Gly Cys Phe Ser Tyr Tyr Gln
 35 40 45
 Glu Ala Lys Ser Ser Lys Ile Met Asp Ser Phe Lys Asn Met Val Pro
 50 55 60

Gln Gln Ala Leu Val Ile Arg Glu Gly Glu Lys Met Gln Ile Asn Ala
65 70 75 80
Glu Glu Val Val Val Gly Asp Leu Val Glu Val Lys Gly Gly Asp Arg
85 90 95
Val Pro Ala Asp Leu Arg Ile Ile Ser Ser His Gly Cys Lys Val Asp
100 105 110
Asn Ser Ser Leu Thr Gly Glu Pro Glu Pro Gln Thr Arg Ser Pro Glu
115 120 125
Phe Thr His Glu Asn Pro Leu Glu Thr Arg Asn Ile Cys Phe Phe Ser
130 135 140
Thr Asn Cys Val Glu Gly Thr Ala Arg Gly Ile Val Ile Ala Thr Gly
145 150 155 160
Asp Arg Thr Val Met Gly Arg Ile Ala Thr Leu Ala Ser Gly Leu Glu
165 170 175
Val Gly Arg Thr Pro Ile Ala Met Glu Ile Glu His Phe Ile Gln Leu
180 185 190
Ile Thr Gly Val Ala Val Phe Leu Gly Val Ser Phe Phe Val Leu Ser
195 200 205
Leu Ile Leu Gly Tyr Ser Trp Leu Glu Ala Val Ile Phe Leu Ile Gly
210 215 220
Ile Ile Val Ala Asn Val Pro Glu Gly Leu Leu Ala Thr Val Thr Val
225 230 235 240
Cys Leu Thr Leu Thr Ala Lys Arg Met Ala Arg Lys Asn Cys Leu Val
245 250 255
Lys Asn Leu Glu Ala Val Glu Thr Leu Gly Ser Thr Ser Thr Ile Cys
260 265 270
Ser Asp Lys Thr Gly Thr Leu Thr Gln Asn Arg Met Thr Val Ala His
275 280 285
Met Trp Phe Asp Asn Gln Ile His Glu Ala Asp Thr Thr Glu Asp Gln

290 295 300
Ser Gly Ala Thr Phe Asp Lys Arg Ser Pro Thr Trp Thr Ala Leu Ser
305 310 315 320
Arg Ile Ala Gly Leu Cys Asn Arg Ala Val Phe Lys Ala Gly Gln Glu
325 330 335
Asn Ile Ser Val Ser Lys Arg Asp Thr Ala Gly Asp Ala Ser Glu Ser
340 345 350
Ala Leu Leu Glu Cys Ile Glu Leu Ser Cys Gly Ser Val Arg Lys Met
355 360 365
Arg Asp Arg Asn Pro Lys Val Ala Glu Ile Pro Phe Asn Ser Thr Asn
370 375 380
Lys Tyr Gln Leu Ser Ile His Glu Arg Glu Asp Ser Pro Gln Ser His
385 390 395 400
Val Leu Val Met Lys Gly Ala Pro Glu Arg Ile Leu Asp Arg Cys Ser
405 410 415
Thr Ile Leu Val Gln Gly Lys Glu Ile Pro Leu Asp Lys Glu Met Gln
420 425 430
Asp Ala Phe Gln Asn Ala Tyr Met Glu Leu Gly Gly Leu Gly Glu Arg
435 440 445
Val Leu Gly Phe Cys Gln Leu Asn Leu Pro Ser Gly Lys Phe Pro Arg
450 455 460
Gly Phe Lys Phe Asp Thr Asp Glu Leu Asn Phe Pro Thr Glu Lys Leu
465 470 475 480
Cys Phe Val Gly Leu Met Ser Met Ile Asp Pro Pro Arg Ala Ala Val
485 490 495
Pro Asp Ala Val Gly Lys Cys Arg Ser Ala Gly Ile Lys Val Ile Met
500 505 510
Val Thr Gly Asp His Pro Ile Thr Ala Lys Ala Ile Ala Lys Gly Val
515 520 525

Gly Ile Ile Ser Glu Gly Asn Glu Thr Val Glu Asp Ile Ala Ala Arg
530 535 540
Leu Asn Ile Pro Met Ser Gln Val Asn Pro Arg Glu Ala Lys Ala Cys
545 550 555 560
Val Val His Gly Ser Asp Leu Lys Asp Met Thr Ser Glu Gln Leu Asp
565 570 575
Glu Ile Leu Lys Asn His Thr Glu Ile Val Phe Ala Arg Thr Ser Pro
580 585 590
Gln Gln Lys Leu Ile Ile Val Glu Gly Cys Gln Arg Gln Gly Ala Ile
595 600 605
Val Ala Val Thr Gly Asp Gly Val Asp Asp Ser Pro Ala Leu Lys Lys
610 615 620
Ala Asp Ile Gly Ile Ala Met Gly Ile Ser Gly Ser Asp Val Ser Lys
625 630 635 640
Gln Ala Ala Asp Met Ile Leu Leu Asp Asp Asn Phe Ala Ser Ile Val
645 650 655
Thr Gly Val Glu Glu Gly Arg Leu Ile Phe Asp Asn Leu Lys Lys Ser
660 665 670
Ile Ala Tyr Thr Leu Thr Ser Asn Ile Pro Glu Ile Thr Pro Phe Leu
675 680 685
Leu Phe Ile Ile Ala Asn Ile Pro Leu Pro Leu Gly Thr Val Thr Ile
690 695 700
Leu Cys Ile Asp Leu Gly Thr Asp Met Val Pro Ala Ile Ser Leu Ala
705 710 715 720
Tyr Glu Ala Ala Glu Ser Asp Ile Met Lys Arg Gln Pro Arg Asn Ser
725 730 735
Gln Thr Asp Lys Leu Val Asn Glu Arg Leu Ile Ser Met Ala Tyr Gly
740 745 750
Gln Ile Gly Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val

755 760 765
Ile Leu Ala Glu Asn Gly Phe Leu Pro Ser Arg Leu Leu Gly Ile Arg
770 775 780
Leu Asp Trp Asp Asp Arg Thr Met Asn Asp Leu Glu Asp Ser Tyr Gly
785 790 795 800
Gln Glu Trp Thr Tyr Glu Gln Arg Lys Val Val Glu Phe Thr Cys His
805 810 815
Thr Ala Phe Phe Ala Ser Ile Val Val Val Gln Trp Ala Asp Leu Ile
820 825 830
Ile Cys Lys Thr Arg Arg Asn Ser Val Phe Gln Gln Gly Met Lys Asn
835 840 845
Lys Ile Leu Ile Phe Gly Leu Leu Glu Glu Thr Ala Leu Ala Ala Phe
850 855 860
Leu Ser Tyr Cys Pro Gly Met Gly Val Ala Leu Arg Met Tyr Pro Leu
865 870 875 880
Lys Val Thr Trp Trp Phe Cys Ala Phe Pro Tyr Ser Leu Leu Ile Phe
885 890 895
Ile Tyr Asp Glu Val Arg Lys Leu Ile Leu Arg Arg Tyr Pro Gly Gly
900 905 910
Trp Val Glu Lys Glu Thr Tyr Tyr
915 920

<210> 2360

<211> 293

<212> PRT

<213> Homo sapiens

<400> 2360

Met	Glu	Leu	Ser	Asp	Phe	Glu	Asp	Cys	Leu	Thr	Leu	Phe	Ala	Gly	Asp
1				5					10					15	
Pro	Gly	Leu	Gly	Pro	Glu	Glu	Leu	Arg	Ala	Ala	Met	Gly	Lys	Ala	Lys
			20					25					30		
Gln	Leu	Trp	Gly	Pro	Pro	Arg	Gly	Phe	Arg	Pro	Glu	Gln	Ile	Leu	Gln
		35					40					45			
Leu	Gly	Arg	Leu	Leu	Ile	Gly	Leu	Gly	Asp	Arg	Glu	Leu	Gln	Glu	Leu
	50					55					60				
Ile	Leu	Val	Asp	Trp	Gly	Val	Leu	Ser	Thr	Leu	Gly	Gln	Ile	Asp	Gly
65					70					75				80	
Trp	Ser	Thr	Thr	Gln	Leu	Arg	Ile	Val	Val	Ser	Ser	Phe	Leu	Arg	Gln
				85					90				95		
Ser	Gly	Arg	His	Val	Ser	His	Leu	Asp	Phe	Val	His	Leu	Thr	Ala	Leu
		100					105					110			
Gly	Tyr	Thr	Leu	Cys	Gly	Leu	Arg	Pro	Glu	Glu	Leu	Gln	His	Ile	Ser
	115					120					125				
Ser	Trp	Glu	Phe	Ser	Gln	Ala	Ala	Leu	Phe	Leu	Gly	Thr	Leu	His	Leu
	130				135						140				
Gln	Cys	Ser	Glu	Glu	Gln	Leu	Glu	Val	Leu	Ala	His	Leu	Leu	Val	Leu
145					150				155				160		
Pro	Gly	Gly	Phe	Gly	Pro	Ile	Ser	Asn	Trp	Gly	Pro	Glu	Ile	Phe	Thr
			165						170				175		
Glu	Ile	Gly	Thr	Ile	Ala	Ala	Gly	Ile	Pro	Asp	Leu	Ala	Leu	Ser	Ala
		180						185					190		
Leu	Leu	Arg	Gly	Gln	Ile	Gln	Gly	Val	Thr	Pro	Leu	Ala	Ile	Ser	Val
	195					200					205				
Ile	Pro	Pro	Pro	Lys	Phe	Ala	Val	Val	Phe	Ser	Pro	Ile	Gln	Leu	Ser
	210					215					220				
Ser	Leu	Thr	Ser	Ala	Gln	Ala	Val	Ala	Val	Thr	Pro	Glu	Gln	Met	Ala

225 230 235 240
Phe Leu Ser Pro Glu Gln Arg Arg Ala Val Ala Trp Ala Gln His Glu
 245 250 255
Gly Lys Glu Ser Pro Glu Gln Gln Gly Arg Ser Thr Ala Trp Gly Leu
 260 265 270
Gln Asp Trp Ser Arg Pro Ser Trp Ser Leu Val Leu Thr Ile Ser Phe
 275 280 285
Leu Gly His Leu Leu
 290

<210> 2361

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2361

Met Trp Val Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro
1 5 10 15
Ala Gly Arg Gly Ala Pro Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile
 20 25 30
Val Ser Thr Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln
 35 40 45
Gly Tyr Gly Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro
 50 55 60
Pro Pro Pro Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala
 65 70 75 80
Thr Pro Gly Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala
 85 90 95

Ala Pro Asp Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr
 100 105 110
 Gly Gln Tyr Ala Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly
 115 120 125
 Phe Ser Asp Pro Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val
 130 135 140
 Pro Gly Ser Gly Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly
 145 150 155 160
 Gln Asn His Asn Val Gln Gly Phe His Pro Tyr Arg Arg
 165 170

<210> 2362

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2362

Met His Gly Ser Cys Ser Phe Leu Met Leu Leu Leu Pro Leu Leu Leu
 1 5 10 15
 Leu Leu Val Ala Thr Thr Gly Pro Val Gly Ala Leu Thr Asp Glu Glu
 20 25 30
 Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala Gln Val Ser
 35 40 45
 Pro Pro Ala Ser Asp Met Leu His Met Arg Trp Asp Glu Glu Leu Ala
 50 55 60
 Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val Trp Gly His Asn Lys
 65 70 75 80
 Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe Ala Ile Thr Asp Glu Gly

85	90	95
Met Asp Val Pro Leu Ala Met Glu Glu Trp His His Glu Arg Glu His		
100	105	110
Tyr Asn Leu Ser Ala Ala Thr Cys Ser Pro Gly Gln Met Cys Gly His		
115	120	125
Tyr Thr Gln Val Val Trp Ala Lys Thr Glu Arg Ile Gly Cys Gly Ser		
130	135	140
His Phe Cys Glu Lys Leu Gln Gly Val Glu Glu Thr Asn Ile Glu Leu		
145	150	155
160		
Leu Val Cys Asn Tyr Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro		
165	170	175
Tyr Gln Glu Gly Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys		
180	185	190
Lys Asn Ser Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp		
195	200	205
Leu Pro Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala		
210	215	220
Ser Asp Ser Arg Lys Met Gly Ala Glu Gly Pro Asp Lys Pro Ser Val		
225	230	235
240		
Val Ser Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu		
245	250	255
Gly Leu Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe		
260	265	270

<210> 2363

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2363

Met Arg Lys Lys Gly Ser Leu Pro Leu Gly Pro Ala Leu Leu Met His
 1 5 10 15
 Val Cys Ala His Ala Cys Lys Pro Gly Thr Phe Ser Ser Arg Pro Pro
 20 25 30
 Gly Leu Gly Gln Phe Leu Leu Leu Leu Pro Ser Pro Pro Thr Gly Cys
 35 40 45
 Val Leu Ser Asn Trp Asn Met Arg Leu Tyr Leu Gln Asp Trp Pro His
 50 55 60
 Gly Gly Arg Val Arg Ser Leu Phe Pro Val Ser Arg His Arg Ser Leu
 65 70 75 80
 Ser Leu Ala Leu Pro Cys Phe Gly Ala Ser Leu Val Ala Pro Val Arg
 85 90 95
 Phe Ser Arg Leu Val Ala Ala Gln Ser Gly Val Arg Thr Cys Arg Gly
 100 105 110
 His Ala Phe Leu Ala Leu Thr
 115

<210> 2364

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2364

Met Pro Pro Gly His Thr His Ser Gly Ser Asp Ser Ser Asp Ser Glu
 1 5 10 15
 Tyr Ser Ser Gln Thr Thr Val Ser Gly Leu Ser Glu Glu Leu Arg His

20	25	30	
Tyr Glu Ala Gln Gln Gly Ala Gly Gly Pro Ala His Gln Val Ile Val			
35	40	45	
Glu Ala Thr Glu Asn Pro Val Phe Ala His Ser Thr Val Val His Pro			
50	55	60	
Glu Ser Arg His His Pro Pro Ser Asn Pro Arg Gln Gln Pro His Leu			
65	70	75	80
Asp Ser Gly Ser Leu Pro Pro Gly Arg Gln Gly Gln Gln Pro Arg Arg			
85	90	95	
Asp Pro Pro Arg Glu Gly Leu Trp Pro Pro Pro Tyr Arg Pro Arg Arg			
100	105	110	
Asp Ala Phe Glu Ile Ser Thr Glu Gly His Ser Gly Pro Ser Asn Arg			
115	120	125	
Ala Arg Trp Gly Pro Arg Gly Ala Arg Ser His Asn Pro Arg Asn Pro			
130	135	140	
Ala Ser Thr Ala Met Gly Ser Ser Val Pro Gly Tyr Cys Gln Pro Ile			
145	150	155	160
Thr Thr Val Thr Ala Ser Ala Ser Val Thr Val Ala Val His Pro Pro			
165	170	175	
Pro Val Pro Gly Pro Gly Arg Asn Pro Arg Gly Gly Leu Cys Pro Gly			
180	185	190	
Tyr Pro Glu Thr Asp His Gly Leu Phe Glu Asp Pro Thr Cys Leu Ser			
195	200	205	
Thr Ser Gly Val Arg Gly Gly Ile Arg Arg Trp Lys Ser Leu Ser Cys			
210	215	220	
Arg Thr Trp Asn Ala Arg Arg Gly Pro Gly Glu Ala Ala Pro Thr Glu			
225	230	235	240
Gly Asp			

<210> 2365

<211> 945

<212> PRT

<213> Homo sapiens

<400> 2365

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Met Ala Glu Gly Gln Gly Gly Gly Gly Gln Arg Trp Asp Trp Ala Gly
  1              5              10              15
Gly Gly Arg Ala Ala Glu Glu Glu Val Val Arg Arg Arg Cys Arg Arg
          20              25              30
Gly Glu Glu Ala Gln Val Ala Gln Pro Trp Pro Glu Gly Ser Arg Gly
          35              40              45
Thr Ala Ala Gly Pro Pro Val Glu Glu Arg Phe Arg Gln Leu His Leu
          50              55              60
Arg Lys Gln Val Ser Tyr Arg Lys Ala Ile Thr Lys Ser Gly Leu Gln
          65              70              75              80
His Leu Ala Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser
          85              90              95
Glu Arg Gln Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr
          100             105             110
Gly Glu His Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr
          115             120             125
Val Gly Glu Gln Tyr Cys Val Ala Arg Met Leu Lys Ser Val Ser Arg
          130             135             140
Arg Lys Cys Ala Ala Cys Lys Ile Val Val His Thr Pro Cys Ile Glu
          145             150             155             160
Gln Leu Glu Lys Ile Asn Phe Arg Cys Lys Pro Ser Phe Arg Glu Ser

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	165		170		175
Gly Ser Arg Asn Val Arg Glu Pro Thr Phe Val Arg His His Trp Val					
	180		185		190
His Arg Arg Arg Gln Asp Gly Lys Cys Arg His Cys Gly Lys Gly Phe					
	195		200		205
Gln Gln Lys Phe Thr Phe His Ser Lys Glu Ile Val Ala Ile Ser Cys					
	210		215		220
Ser Trp Cys Lys Gln Ala Tyr His Ser Lys Val Ser Cys Phe Met Leu					
225		230		235	240
Gln Gln Ile Glu Glu Pro Cys Ser Leu Gly Val His Ala Ala Val Val					
	245		250		255
Ile Pro Pro Thr Trp Ile Leu Arg Ala Arg Arg Pro Gln Asn Thr Leu					
	260		265		270
Lys Ala Ser Lys Lys Lys Lys Arg Ala Ser Phe Lys Arg Lys Ser Ser					
	275		280		285
Lys Lys Gly Pro Glu Glu Gly Arg Trp Arg Pro Phe Ile Ile Arg Pro					
	290		295		300
Thr Pro Ser Pro Leu Met Lys Pro Leu Leu Val Phe Val Asn Pro Lys					
305		310		315	320
Ser Gly Gly Asn Gln Gly Ala Lys Ile Ile Gln Ser Phe Leu Trp Tyr					
	325		330		335
Leu Asn Pro Arg Gln Val Phe Asp Leu Ser Gln Gly Gly Pro Lys Glu					
	340		345		350
Ala Leu Glu Met Tyr Arg Lys Val His Asn Leu Arg Ile Leu Ala Cys					
	355		360		365
Gly Gly Asp Gly Thr Val Gly Trp Ile Leu Ser Thr Leu Asp Gln Leu					
	370		375		380
Arg Leu Lys Pro Pro Pro Pro Val Ala Ile Leu Pro Leu Gly Thr Gly					
385		390		395	400

Asn Asp Leu Ala Arg Thr Leu Asn Trp Gly Gly Gly Tyr Thr Asp Glu			
405	410	415	
Pro Val Ser Lys Ile Leu Ser His Val Glu Glu Gly Asn Val Val Gln			
420	425	430	
Leu Asp Arg Trp Asp Leu His Ala Glu Pro Asn Pro Glu Ala Gly Pro			
435	440	445	
Glu Asp Arg Asp Glu Gly Ala Thr Asp Arg Leu Pro Leu Asp Val Phe			
450	455	460	
Asn Asn Tyr Phe Ser Leu Gly Phe Asp Ala His Val Thr Leu Glu Phe			
465	470	475	480
His Glu Ser Arg Glu Ala Asn Pro Glu Lys Phe Asn Ser Arg Phe Arg			
485	490	495	
Asn Lys Met Phe Tyr Ala Gly Thr Ala Phe Ser Asp Phe Leu Met Gly			
500	505	510	
Ser Ser Lys Asp Leu Ala Lys His Ile Arg Val Val Cys Asp Gly Met			
515	520	525	
Asp Leu Thr Pro Lys Ile Gln Asp Leu Lys Pro Gln Cys Val Val Phe			
530	535	540	
Leu Asn Ile Pro Arg Tyr Cys Ala Gly Thr Met Pro Trp Gly His Pro			
545	550	555	560
Gly Glu His His Asp Phe Glu Pro Gln Arg His Asp Asp Gly Tyr Leu			
565	570	575	
Glu Val Ile Gly Phe Thr Met Thr Ser Leu Ala Ala Leu Gln Val Gly			
580	585	590	
Gly His Gly Glu Arg Leu Thr Gln Cys Arg Glu Val Val Leu Thr Thr			
595	600	605	
Ser Lys Ala Ile Pro Val Gln Val Asp Gly Glu Pro Cys Lys Leu Ala			
610	615	620	
Ala Ser Arg Ile Arg Ile Ala Leu Arg Asn Gln Ala Thr Met Val Gln			

625 630 635 640
Lys Ala Lys Arg Arg Ser Ala Ala Pro Leu His Ser Asp Gln Gln Pro
 645 650 655
Val Pro Glu Gln Leu Arg Ile Gln Val Ser Arg Val Ser Met His Asp
 660 665 670
Tyr Glu Ala Leu His Tyr Asp Lys Glu Gln Leu Lys Glu Ala Ser Val
 675 680 685
Pro Leu Gly Thr Val Val Val Pro Gly Asp Ser Asp Leu Glu Leu Cys
 690 695 700
Arg Ala His Ile Glu Arg Leu Gln Gln Glu Pro Asp Gly Ala Gly Ala
705 710 715 720
Lys Ser Pro Thr Cys Gln Lys Leu Ser Pro Lys Trp Cys Phe Leu Asp
 725 730 735
Ala Thr Thr Ala Ser Arg Phe Tyr Arg Ile Asp Arg Ala Gln Glu His
 740 745 750
Leu Asn Tyr Val Thr Glu Ile Ala Gln Asp Glu Ile Tyr Ile Leu Asp
 755 760 765
Pro Glu Leu Leu Gly Ala Ser Ala Arg Pro Asp Leu Pro Thr Pro Thr
 770 775 780
Ser Pro Leu Pro Thr Ser Pro Cys Ser Pro Thr Pro Arg Ser Leu Gln
785 790 795 800
Gly Asp Ala Ala Pro Pro Gln Gly Glu Glu Leu Ile Glu Ala Ala Lys
 805 810 815
Arg Asn Asp Phe Cys Lys Leu Gln Glu Leu His Arg Ala Gly Gly Asp
 820 825 830
Leu Met His Arg Asp Glu Gln Ser Arg Thr Leu Leu His His Ala Val
 835 840 845
Ser Thr Gly Ser Lys Asp Val Val Arg Tyr Leu Leu Asp His Ala Pro
 850 855 860

Pro Glu Ile Leu Asp Ala Val Glu Glu Asn Gly Glu Thr Cys Leu His
 865 870 875 880
 Gln Ala Ala Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu
 885 890 895
 Ala Gly Ala Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg
 900 905 910
 Gln Arg Ala Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu
 915 920 925
 Asn Arg Gln His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala
 930 935 940
 Val
 945

<210> 2366

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2366

Met Gly Tyr Asn Pro Val Leu Leu Ser Phe Val Arg Met Phe Pro Ala
 1 5 10 15
 Gln Ala Leu Arg Ser Ser Leu Ser Ser Tyr Val Leu Phe Ala Tyr Pro
 20 25 30
 Val Ile Val Gly Phe Cys Trp Val Leu Cys Val Leu Asn Thr Phe Leu
 35 40 45
 Leu Ser Gly Thr Thr Arg Tyr Ser Arg Leu Ile Leu Cys Val Ser Tyr
 50 55 60
 Arg Ser Pro Lys Ile Ser His Phe Ser Lys Lys Pro Ser Phe Leu Leu

65	70	75	80
Leu Glu Arg Glu Ile Arg Asn His Gly Cys Trp Val Cys Ser Leu Leu			
	85	90	95
Leu Gly Cys Leu Ser Phe Gly Pro Ser His Leu Thr Lys Gly Tyr Met			
100	105	110	
Cys Phe Tyr			
115			

<210> 2367

<211> 217

<212> PRT

<213> Homo sapiens

<400> 2367.

Met Ala Ser Ala Gly Pro Asn Arg Pro Glu Ile Ser Leu Ala Arg Asn			
1	5	10	15
Ser Thr Cys Val Gly Cys Pro Asn Asn His Ser Phe Ser Arg Thr Val			
20	25	30	
Ala His Gly Gly Arg Ala Leu Ala Ser Ala Trp Pro Pro Gln Ala Gln			
35	40	45	
Phe Leu Pro Val Gly Gly Arg Ser Arg Pro Gly Ser Cys Pro Ser Ala			
50	55	60	
Ser Ser Pro Gly Pro Glu Leu Val Pro Val Gly Leu Ser Arg Pro Ser			
65	70	75	80
Ser Pro Gly His Leu His Gly Pro Ser Ser Cys Leu Thr Thr Thr Thr			
85	90	95	
Phe Gly Pro Ala Pro Ala Gln Leu Leu Ala Ala Val Val Gly Pro Arg			
100	105	110	

Leu Pro Cys Val Gln Ala Ser Arg Thr His Leu Arg Leu Ser Gly Gly
 115 120 125
 Pro Glu Arg Pro Gly Ser Cys Leu Pro Ala Ala Ser Pro Gly Pro Ala
 130 135 140
 Ala Ala Ser Arg Arg Pro Pro Gln Ala Thr Phe Pro Pro Ala Ser Arg
 145 150 155 160
 Gln Pro Arg Gln Ala Arg Leu Pro Pro Ala Gly Gly Leu Leu Arg Arg
 165 170 175
 Leu Ile Ser Cys Pro Ala Ala Ala Ser Pro Gly Gln Ala Pro Ala Cys
 180 185 190
 Arg Gln Ala Pro Gln Ala Gln Leu Leu Arg Pro Glu Gly Phe Ser Arg
 195 200 205
 Pro Gly Ser Cys Leu Ala Ala Ala Ser
 210 215

<210> 2368

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2368

Met Gln Gly Cys Ala Arg Ile Asn Ser His Pro Ser Gly Ala Phe Gly
 1 5 10 15
 Asp Gly His Val Gln Tyr Cys Asp Asn Val Val Asp Arg Trp Pro Phe
 20 25 30
 Leu Pro Leu Phe Cys Thr Phe Phe Pro Asp Gly Trp Gly Cys Phe Trp
 35 40 45
 Ala Ala Gln Ser Val Val Gly Ser Trp Gly Arg Gly Asn Gly Pro Gln

50 55 60
 Leu Leu Pro Gln Glu Leu Trp Lys Trp His Trp His Gly Tyr Ala Pro
 65 70 75 80
 Arg Leu Ser Leu Leu Leu Phe Pro Gly Pro Pro Val Val Ile Thr His
 85 90 95
 Pro Asp Leu Gly Asp Leu His Asn Ile Thr Glu Val Gln Pro Leu Gln
 100 105 110
 Gly Gly Arg Trp Trp His Ser Arg Thr Cys Ser Ser Pro Leu Cys Gly
 115 120 125
 His His Ser Leu Pro Leu Leu Leu Val Ser Leu Ser Leu Ala Glu Arg
 130 135 140
 Gly Pro Ala Gly Pro Ser Glu Cys Phe Trp Arg Asn Ala Leu Ile Gln
 145 150 155 160
 Lys Glu Glu Val Lys Ser Leu Lys Thr Val Gly Asp Lys Thr Gly Asn
 165 170 175
 Cys Phe Cys Phe Met Tyr Asn Lys Tyr Leu Pro Phe Tyr Val Ser His
 180 185 190
 Phe Leu Gly Ile
 195

<210> 2369

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2369

Met Thr Gly Tyr His Lys Thr Arg Val Arg Gly Glu Lys Arg Gln Gly
 1 5 10 15

Asp Gly Lys Lys Ser Trp Arg Ile Tyr Val Gln Ser Cys Gln Leu Gln
 20 25 30
 Met Thr Lys Val Lys Pro Gln Ile Ser Arg Met Leu Arg Arg Met Gly
 35 40 45
 Asn Ile Phe Leu Glu Asp Trp Ala Ala Pro Thr Pro Thr Leu Thr Leu
 50 55 60
 Pro Ser Pro Thr Leu Ile Pro Thr Ser Glu Val Gln Ile Lys Gly Arg
 65 70 75 80
 Gly Gln Arg Glu Phe Gln Ser Arg Phe Leu Asp Ser Ser Phe Phe Pro
 85 90 95
 Leu Cys Leu Pro Met Val Ser Pro Ser Leu Gly Ile Leu
 100 105

<210> 2370

<211> 283

<212> PRT

<213> Homo sapiens

<400> 2370

Met Asn Thr Leu Ser Phe Ala Val Leu Lys Glu Gly Arg Gln Leu Thr
 1 5 10 15
 Tyr Glu Lys Val Asn Leu Ser Ser Ile Arg Ala Met Leu Asn Ser Asn
 20 25 30
 Asp Val Ser Glu Tyr Leu Lys Ile Ser Pro His Gly Leu Glu Ala Arg
 35 40 45
 Cys Asp Ala Ser Ser Phe Glu Ser Val Arg Cys Thr Phe Cys Val Asp
 50 55 60
 Ala Gly Val Trp Tyr Tyr Glu Val Thr Val Val Thr Ser Gly Val Met

65	70	75	80
Gln Ile Gly Trp Ala Thr Arg Asp Ser Lys Phe Leu Asn His Glu Gly			
	85	90	95
Tyr Gly Ile Gly Asp Asp Glu Tyr Ser Cys Ala Tyr Asp Gly Cys Arg			
100	105	110	
Gln Leu Ile Trp Tyr Asn Ala Arg Ser Lys Pro His Ile His Pro Cys			
115	120	125	
Trp Lys Glu Gly Asp Thr Val Gly Phe Leu Leu Asp Leu Asn Glu Lys			
130	135	140	
Gln Met Ile Phe Phe Leu Asn Gly Asn Gln Leu Pro Pro Glu Lys Gln			
145	150	155	160
Val Phe Ser Ser Thr Val Ser Gly Phe Phe Ala Ala Ala Ser Phe Met			
165	170	175	
Ser Tyr Gln Gln Cys Glu Phe Asn Phe Gly Ala Lys Pro Phe Lys Tyr			
180	185	190	
Pro Pro Ser Met Lys Phe Ser Thr Phe Asn Asp Tyr Ala Phe Leu Thr			
195	200	205	
Ala Glu Glu Lys Ile Ile Leu Pro Arg His Arg Arg Leu Ala Leu Leu			
210	215	220	
Lys Gln Val Ser Ile Arg Glu Asn Cys Cys Ser Leu Cys Cys Asp Glu			
225	230	235	240
Val Ala Asp Thr Gln Leu Lys Pro Cys Gly His Ser Asp Leu Cys Met			
245	250	255	
Asp Cys Ala Leu Gln Leu Glu Thr Cys Pro Leu Cys Arg Lys Glu Ile			
260	265	270	
Val Ser Arg Ile Arg Gln Ile Ser His Ile Ser			
275	280		

<210> 2371

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2371

Met Leu Leu Met Ser Tyr Gly Ser Leu Leu Val Gln Leu Ala His Pro
1 5 10 15
Pro Ile His Ser Leu Phe Asp Ser Gln Gln Leu Ser Val Phe Ser Cys
20 25 30
Cys Ser Ser Trp Phe Ser Ser Leu Phe Leu Val Leu Phe Phe Ser Ser
35 40 45
Phe Phe Ser Asn Phe Phe Ser Val Leu Asp Cys Leu Ser Leu Met Phe
50 55 60
Cys Ser Phe Phe Leu Phe Phe Leu Glu Thr Gly Ser His Ser Val Thr
65 70 75 80
Gln Asp Gly Val Gln Trp His Asp Val Gly Ser Leu Gln Ser Leu Pro
85 90 95
Pro Lys Ala Gln Ala Ile Leu Pro Ser Gln Pro Pro Lys
100 105

<210> 2372

<211> 372

<212> PRT

<213> Homo sapiens

<400> 2372

Met Asp Gln Tyr Lys Phe Tyr Asp Pro Ser Pro Pro Arg Arg Arg Gly

1	5	10	15
Asn Trp Ile Thr Leu Lys Met Arg Lys Leu Ile Lys Ser Lys Lys Asp			
20	25	30	
Ile Asn Arg Glu Arg Gln Lys Ser Leu Thr Leu Thr Pro Thr Arg Ser			
35	40	45	
Asp Ser Ser Glu Gly Phe Leu Gln Leu Pro His Gln Asp Ser Gln Asp			
50	55	60	
Ser Ser Ser Val Gly Ser Asn Ser Leu Glu Asp Gly Gln Thr Leu Gly			
65	70	75	80
Thr Lys Lys Ser Ser Asn Thr Thr Ser Phe Glu Asp Ile Ser Pro Gln			
85	90	95	
Gly Val Ser Asp Asp Ser Ser Thr Gly Ser Arg Val His Ala Gly Ala			
100	105	110	
Val Asn Asn Gln Ser Arg Pro Gln Ser His Ser Ser Gly Glu Phe Ser			
115	120	125	
Leu Leu His Asp His Glu Ala Trp Ser Ser Ser Gly Ser Ser Pro Ile			
130	135	140	
Gln Tyr Leu Lys Arg Gln Thr Arg Ser Ser Pro Val Leu Gln His Lys			
145	150	155	160
Ile Ser Glu Thr Leu Glu Ser Arg His His Lys Ile Lys Thr Gly Ser			
165	170	175	
Pro Gly Ser Glu Val Val Thr Leu Gln Gln Phe Leu Glu Glu Ser Asn			
180	185	190	
Lys Leu Thr Ser Val Gln Ile Lys Ser Ser Ser Gln Glu Asn Leu Leu			
195	200	205	
Asp Glu Val Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys			
210	215	220	
Asp Lys Pro Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr			
225	230	235	240

<210> 2373

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2373

出証特 2 0 0 4 - 3 0 5 9 6 6 0

20	25	30
Ser Val Gly Ala Leu Ala Thr Ser Val Trp Leu Cys Leu Leu Cys Tyr		
35	40	45
Phe Ala Phe Pro Phe Gln Leu Leu Ile Ala Ser Thr Phe Ile Gly Ala		
50	55	60
Phe Cys Gly Asn Tyr Thr Thr Phe Trp Gly Ala Cys Phe Ala Tyr Ile		
65	70	75
Val Asp Gln Cys Lys Glu His Lys Gln Lys Thr Ile Arg Ile Ala Ile		
85	90	95
Ile Asp Phe Leu Leu Gly Leu Val Thr Gly Leu Thr Gly Leu Ser Ser		
100	105	110
Gly Tyr Phe Ile Arg Glu Leu Gly Phe Glu Trp Ser Phe Leu Ile Ile		
115	120	125
Ala Val Ser Leu Ala Val Asn Leu Ile Tyr Ile Leu Phe Phe Leu Gly		
130	135	140
Asp Pro Val Lys Glu Cys Ser Ser Gln Asn Val Thr Met Ser Cys Ser		
145	150	155
Glu Gly Phe Lys Asn Leu Phe Tyr Arg Thr Tyr Met Leu Phe Lys Asn		
165	170	175
Ala Ser Gly Lys Arg Arg Phe Leu Leu Cys Leu Leu Leu Phe Thr Val		
180	185	190
Ile Thr Tyr Phe Phe Val Val Ile Gly Ile Ala Pro Ile Phe Ile Leu		
195	200	205
Tyr Glu Leu Asp Ser Pro Leu Cys Trp Asn Glu Val Phe Ile Gly Tyr		
210	215	220
Gly Ser Ala Leu Gly Ser Ala Ser Phe Leu Thr Ser Phe Leu Gly Ile		
225	230	235
Trp Leu Phe Ser Tyr Cys Met Glu Asp Ile His Met Ala Phe Ile Gly		
245	250	255

Ile Phe Thr Thr Met Thr Gly Met Ala Met Thr Ala Phe Ala Ser Thr
 260 265 270
 Thr Leu Met Met Phe Phe Ser Gln Gly Ala Val Pro Phe His Tyr Cys
 275 280 285
 Ala Ile Leu Cys Ser Thr Val His Val Val Lys Ser Gly Ser Phe Asp
 290 295 300

<210> 2374

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2374

Met Gly Ile Leu Tyr Asp Ala Glu Val Tyr Gly Thr Ile Ile Pro Thr
 1 5 10 15
 Ser Gln Val Val Ser Met Val Pro Ser Ser Phe Ser Thr Leu Ser Pro
 20 25 30
 Ser Pro Val Ser Ile Ala Ala Ile Phe Met Ser Met Ser Ile Gln Cys
 35 40 45
 Leu Leu Leu Phe Thr Ser Glu Asn Met Gln Tyr Leu Val Phe Phe Cys
 50 55 60
 Tyr Ile Asn Ser Leu Arg Ile Met Ala Ser Ser Ser Ile His Val Ala
 65 70 75 80
 Ala Lys Asp Met Ile Leu Phe Phe Phe Ile Ala Val Trp Tyr Ser Met
 85 90 95
 Met Tyr Val Tyr His Ser Phe Ile Ile Arg Ser Thr Val Asp Arg His
 100 105 110
 Leu Gly

<210> 2375

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2375

Met Phe Trp Pro Gln Ser Asp Ala Cys Pro Thr Pro Gly Thr Pro Ser
 1 5 10 15
 Ser Met Leu Gln Glu Gly Gly Gln Val Asp Pro Gly Val Cys Arg Ser
 20 25 30
 Leu His His Asn Pro Phe Pro Ser Leu Ser Val Ile Leu Gln Asp Phe
 35 40 45
 Thr Gly Ser Thr Val Ala His Gly Ser Val Ser Leu Leu Leu Gln Ser
 50 55 60
 Leu Pro Phe Asp Trp Ser Val Val Ser Val Cys Arg Gly Phe Asn Ala
 65 70 75 80
 Pro Pro His Cys Ala Ala Leu Val Ser Leu Ser Leu Glu Leu Leu Ala
 85 90 95
 Arg Leu Thr Arg Ser Ala Ser Ser Pro Gly His Ala Ser Pro Ser Gly
 100 105 110
 Pro Val Ala Leu Thr Val Glu Phe Ala Met Cys Ser Asp Ser Gly Ala
 115 120 125
 Ser Gly Leu Val Phe Cys Ala Phe Tyr Gly Phe
 130 135

<210> 2376

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2376

Met Pro Asp Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val

1 5 10 15

Ser Gln Leu Thr Asp Met Asn Glu Gln Glu Glu Val Leu Leu Glu Gln

20 25 30

Phe Leu Thr Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp Asp

35 40 45

Leu Val Lys Ser Ile Glu Glu Leu Ala Arg Lys Asn Leu Leu Leu Glu

50 55 60

Pro Ser Leu Glu Ala Lys Arg Gln Thr Val Leu Asp Lys Met Lys Ser

65 70 75 80

Thr Phe Glu Lys Lys Met Gln Arg Gln His Glu Leu Ser Glu Ser Cys

85 90 95

Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala His Glu Ala

100 105 110

Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu Gly Lys Met

115 120 125

Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg Thr Ile Cys

130 135 140

His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala Ile Ala Met

145 150 155 160

His Ser Gln Phe His Ala Pro Leu

165

<210> 2377

<211> 352

<212> PRT

<213> Homo sapiens

<400> 2377

Met Pro Ser Gly Val Pro Gly Cys Trp Pro Gln Leu Pro Leu Lys Gly

1 5 10 15

Pro Trp Arg Pro Thr Pro Arg Pro Arg Val Pro Val Pro Trp Arg Thr

20 25 30

Pro Arg Phe Ala Cys Arg Trp Leu Gly Tyr Leu Gly Leu Leu Leu Leu

35 40 45

Asp Val Ile Ile Cys Leu Leu Val Leu Val Gly Leu Ile Arg Ser Ser

50 55 60

Lys Gly Ile Leu Val Gly Val Cys Leu Leu Gly Val Leu Ala Leu Val

65 70 75 80

Ile Ser Trp Gly Ala Leu Gly Leu Glu Leu Ala Val Ser Val Gly Ser

85 90 95

Ser Asp Phe Cys Val Asp Pro Asp Ala Tyr Val Thr Lys Met Val Glu

100 105 110

Glu Tyr Ser Val Leu Ser Gly Asp Ile Leu Gln Tyr Tyr Leu Ala Cys

115 120 125

Ser Pro Arg Ala Ala Asn Pro Phe Gln Gln Lys Leu Ser Gly Ser His

130 135 140

Lys Ala Leu Val Glu Met Gln Asp Val Val Ala Glu Leu Leu Arg Thr

145 150 155 160

Val Pro Trp Glu Gln Pro Ala Thr Lys Asp Pro Leu Leu Arg Val Gln

165 170 175

Glu Val Leu Asn Gly Thr Glu Val Asn Leu Gln His Leu Thr Ala Leu
180 185 190
Val Asp Cys Arg Ser Leu His Leu Asp Tyr Val Gln Ala Leu Thr Gly
195 200 205
Phe Cys Tyr Asp Gly Val Glu Gly Leu Ile Tyr Leu Ala Leu Phe Ser
210 215 220
Phe Val Thr Ala Leu Met Phe Ser Ser Ile Val Cys Ser Val Pro His
225 230 235 240
Thr Trp Gln Gln Lys Arg Gly Pro Asp Glu Asp Gly Glu Glu Glu Ala
245 250 255
Ala Pro Gly Pro Arg Gln Ala His Asp Ser Leu Tyr Arg Val His Met
260 265 270
Pro Ser Leu Tyr Ser Cys Gly Ser Ser Tyr Gly Ser Glu Thr Ser Ile
275 280 285
Pro Ala Ala Ala His Thr Val Ser Asn Ala Pro Val Thr Glu Tyr Met
290 295 300
Ser Gln Asn Ala Asn Phe Gln Asn Pro Arg Cys Glu Asn Thr Pro Leu
305 310 315 320
Ile Gly Arg Glu Ser Pro Pro Pro Ser Tyr Thr Ser Ser Met Arg Ala
325 330 335
Lys Tyr Leu Ala Thr Ser Gln Pro Arg Pro Asp Ser Ser Gly Ser His
340 345 350

<210> 2378

<211> 551

<212> PRT

<213> Homo sapiens

<400> 2378

Met	Gln	Arg	Phe	Leu	Leu	Glu	Ile	Ser	Asn	Pro	Glu	Thr	Leu	Ser	Asn
1				5					10					15	
Thr	Ala	Gly	Phe	Glu	Gly	Tyr	Ile	Asp	Leu	Gly	Arg	Glu	Leu	Ser	Ser
				20				25					30		
Leu	His	Ser	Leu	Leu	Trp	Glu	Ala	Val	Ser	Gln	Leu	Glu	Gln	Ser	Ile
				35				40					45		
Val	Ser	Lys	Leu	Gly	Pro	Leu	Pro	Arg	Ile	Leu	Arg	Asp	Val	His	Thr
				50				55					60		
Ala	Leu	Ser	Thr	Pro	Gly	Ser	Gly	Gln	Leu	Pro	Gly	Thr	Asn	Asp	Leu
				65				70					75		80
Ala	Ser	Thr	Pro	Gly	Ser	Gly	Ser	Ser	Ser	Ile	Ser	Ala	Gly	Leu	Gln
				85				90					95		
Lys	Met	Val	Ile	Glu	Asn	Asp	Leu	Ser	Gly	Ser	Ser	Gly	Val	Gln	Pro
				100				105					110		
Ser	Pro	Ala	Arg	Ser	Ser	Ser	Tyr	Ser	Glu	Ala	Asn	Glu	Pro	Asp	Leu
				115				120					125		
Gln	Met	Ala	Asn	Gly	Gly	Lys	Ser	Leu	Ser	Met	Val	Asp	Leu	Gln	Asp
				130				135					140		
Ala	Arg	Thr	Leu	Asp	Gly	Glu	Ala	Gly	Ser	Pro	Ala	Gly	Pro	Asp	Val
				145				150					155		160
Leu	Pro	Thr	Asp	Gly	Gln	Ala	Ala	Ala	Ala	Gln	Leu	Val	Ala	Gly	Trp
				165				170					175		
Pro	Ala	Arg	Ala	Thr	Pro	Val	Asn	Leu	Ala	Gly	Leu	Ala	Thr	Val	Arg
				180				185					190		
Arg	Ala	Gly	Gln	Thr	Pro	Thr	Thr	Pro	Gly	Thr	Ser	Glu	Gly	Ala	Pro
				195				200					205		
Gly	Arg	Pro	Gln	Leu	Leu	Ala	Pro	Leu	Ser	Phe	Gln	Asn	Pro	Val	Tyr
				210				215					220		

Gln Met Ala Ala Gly Leu Pro Leu Ser Pro Arg Gly Leu Gly Asp Ser
225 230 235 240
Gly Ser Glu Gly His Ser Ser Leu Ser Ser His Ser Asn Ser Glu Glu
245 250 255
Leu Ala Ala Ala Ala Lys Leu Gly Ser Phe Ser Thr Ala Ala Glu Glu
260 265 270
Leu Ala Arg Arg Pro Gly Glu Leu Ala Arg Arg Gln Met Ser Leu Thr
275 280 285
Glu Lys Gly Gly Gln Pro Thr Val Pro Arg Gln Asn Ser Ala Gly Pro
290 295 300
Gln Arg Arg Ile Asp Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro
305 310 315 320
Ala Pro Arg Gly Arg Thr Pro Pro Asn Leu Leu Ser Thr Leu Gln Tyr
325 330 335
Pro Arg Pro Ser Ser Gly Thr Leu Ala Ser Ala Ser Pro Asp Trp Val
340 345 350
Gly Pro Ser Thr Arg Leu Arg Gln Gln Ser Ser Ser Ser Lys Gly Asp
355 360 365
Ser Pro Glu Leu Lys Pro Arg Ala Val His Lys Gln Gly Pro Ser Pro
370 375 380
Val Ser Pro Asn Ala Leu Asp Arg Thr Ala Ala Trp Leu Leu Thr Met
385 390 395 400
Asn Ala Gln Leu Leu Glu Asp Glu Gly Leu Gly Pro Asp Pro Pro His
405 410 415
Arg Asp Arg Leu Arg Ser Lys Asp Glu Leu Ser Gln Ala Glu Lys Asp
420 425 430
Leu Ala Val Leu Gln Asp Lys Leu Arg Ile Ser Thr Lys Lys Leu Glu
435 440 445
Glu Tyr Glu Thr Leu Phe Lys Cys Gln Glu Glu Thr Thr Gln Lys Leu

450 455 460
 Val Leu Glu Tyr Gln Ala Arg Leu Glu Glu Gly Glu Glu Arg Leu Arg
 465 470 475 480
 Arg Gln Gln Glu Asp Lys Asp Ile Gln Met Lys Gly Ile Ile Ser Arg
 485 490 495
 Leu Met Ser Val Glu Glu Glu Leu Lys Lys Asp His Ala Glu Met Gln
 500 505 510
 Ala Ala Val Asp Ser Lys Gln Lys Ile Ile Asp Ala Gln Glu Lys Arg
 515 520 525
 Ile Ala Ser Leu Asp Ala Ala Asn Ala Arg Leu Met Ser Ala Leu Thr
 530 535 540
 Gln Leu Lys Glu Ser Met His
 545 550

<210> 2379

<211> 461

<212> PRT

<213> Homo sapiens

<400> 2379

Met Gly Ala Gly Pro Gln His Ala Thr Leu Gln Ala Tyr Pro Glu Ala
 1 5 10 15
 Gly Thr Ile Glu Gly Leu Ala Ser Leu Leu Val Ala Leu Leu Glu Lys
 20 25 30
 Thr Thr Trp Val Asp Arg Val His Ile Leu Gln Val Leu Leu Arg Leu
 35 40 45
 Leu Pro Asn Met Ser Ser Asp Leu Gln Gly Gln Leu Gln Gly Leu Leu
 50 55 60

Val	His	Leu	Leu	Asn	Leu	Asp	Gln	Pro	Pro	Ser	Leu	Gln	Val	Cys	Pro
65					70					75					80
Leu	Ser	Cys	Pro	Gln	Phe	Ser	Ser	Pro	Pro	Thr	Gly	Pro	Gln	Gln	Pro
				85						90					95
His	Pro	His	Arg	Leu	Pro	Gln	Asp	Gln	Thr	Gln	Lys	Lys	Phe	Val	Ile
				100						105				110	
Leu	Ala	Leu	Gln	Leu	Leu	Leu	Ala	Cys	Ser	Leu	Glu	Ser	Arg	Asp	Val
			115							120				125	
Val	Leu	Glu	Leu	Met	Ser	Tyr	Phe	Leu	Tyr	Ser	Pro	Val	His	Cys	Arg
			130							135				140	
Pro	Glu	Leu	Lys	Lys	Leu	Leu	His	Gly	Leu	Gly	Leu	Gln	Asp	Pro	Glu
145														155	160
Gly	Phe	Leu	Phe	Lys	Glu	Met	Met	Thr	Trp	Val	Gln	Gly	Pro	Asp	Leu
					165					170					175
Asp	Ser	Lys	Ala	Gly	Leu	Arg	Thr	Cys	Cys	His	Gln	Lys	Leu	Glu	Asp
				180						185				190	
Met	Ile	Gln	Glu	Leu	Gln	Glu	Thr	Pro	Ser	Gln	Thr	Ser	Val	Val	Ser
				195						200				205	
Gly	Ala	Pro	Thr	Arg	Ala	Ser	Val	Ile	Pro	Ser	Gly	Thr	Ser	Trp	Ser
				210										220	
Ala	Ser	Gly	Ile	Phe	Gly	Arg	Leu	Ser	Gln	Val	Ser	Glu	Val	Pro	Leu
225										230				235	240
Met	Val	Val	Ser	Pro	Ala	Glu	Pro	His	Ser	Leu	Ala	Pro	Glu	Leu	Gln
						245				250					255
Ala	Gln	Arg	Met	Leu	Ala	Pro	Thr	Arg	Ser	Trp	Gly	Thr	Pro	Gln	Leu
				260						265				270	
Arg	Leu	Arg	Val	Leu	Ser	Glu	Thr	Leu	Lys	Ser	Phe	Cys	Leu	Glu	Pro
				275						280				285	
Glu	Ala	Arg	Leu	His	Pro	Ala	Gly	Pro	Ala	Gln	Leu	Pro	Gly	Glu	Pro

290 295 300
Pro Pro Leu Glu Glu Thr Asp Trp Ser His Ser Gln Leu Leu Asp Leu
305 310 315 320
Gly Pro Ile Asp Ala Leu Asn Phe Phe Cys Glu Gln Leu Arg Ala Gln
325 330 335
Gln Arg Ser Ser Leu Gln Glu Lys Ala Ala His Pro His Pro Pro Val
340 345 350
Pro Tyr Thr Val Ala Pro Val Pro Asp Met Val Val Pro Pro Pro Arg
355 360 365
Glu His Trp Tyr His Pro Ile Leu Arg Leu Gln Glu Ala Lys Pro Gln
370 375 380
Arg Ser Ala Arg Ser Ala Met Arg Leu Arg Gly Pro Met Pro Ser Arg
385 390 395 400
Leu Cys Ala Gly Arg Thr Leu Asp Gly Pro Ile Arg Thr Leu Lys Leu
405 410 415
Pro Leu Pro Arg Val Glu Pro Gln Pro Phe Pro Leu Asp Trp Pro Met
420 425 430
Pro Pro Arg Pro Leu Pro Pro Arg Leu Leu Gln Pro Ala Leu Gln Arg
435 440 445
Tyr Phe Leu Pro Ala Asp Ala Asp Pro Asp Thr Tyr Ser
450 455 460

<210> 2380

<211> 722

<212> PRT

<213> Homo sapiens

<400> 2380

Met Glu Cys Cys Gln Thr Leu Val Ser His His Val Asp Pro Ser Leu
 1 5 10 15
 Arg Asp Glu Asp Gly Tyr Thr Ala Ala Asp Leu Ala Glu Tyr His Gly
 20 25 30
 His Arg Asp Cys Ala Gln Tyr Leu Arg Glu Val Ala Gln Pro Val Pro
 35 40 45
 Leu Leu Met Thr Pro Pro Pro Pro Phe Pro Pro Pro Pro Leu Leu
 50 55 60
 Ala Thr Arg Arg Ser Leu Glu Asp Gly Arg Arg Gly Gly Pro Gly Pro
 65 70 75 80
 Gly Asn Pro Ser Pro Met Ser Leu Ser Pro Ala Trp Pro Gly His Pro
 85 90 95
 Asp Gln Pro Leu Pro Arg Glu Gln Met Thr Ser Pro Ala Pro Pro Arg
 100 105 110
 Ile Ile Thr Ser Ala Thr Ala Asp Pro Glu Gly Thr Glu Thr Ala Leu
 115 120 125
 Ala Gly Asp Thr Ser Asp Gly Leu Ala Ala Leu Gln Leu Asp Gly Leu
 130 135 140
 Pro Ser Gly Asp Ile Asp Gly Leu Val Pro Thr Arg Asp Glu Arg Gly
 145 150 155 160
 Gln Pro Ile Pro Glu Trp Lys Arg Gln Val Met Val Arg Lys Leu Gln
 165 170 175
 Ala Arg Leu Gly Ala Glu Ser Ser Ala Glu Ala Gln Asp Asn Gly Gly
 180 185 190
 Ser Ser Gly Pro Thr Glu Gln Ala Ala Trp Arg Tyr Ser Gln Thr His
 195 200 205
 Gln Ala Ile Leu Gly Pro Phe Gly Glu Leu Leu Thr Glu Asp Asp Leu
 210 215 220
 Val Tyr Leu Glu Lys Gln Ile Ala Asp Leu Gln Leu Arg Arg Arg Cys

225 230 235 240
Gln Glu Tyr Glu Ser Glu Leu Gly Arg Leu Ala Ala Glu Leu Gln Ala
 245 250 255
Leu Leu Pro Glu Pro Leu Val Ser Ile Thr Val Asn Ser His Phe Leu
 260 265 270
Pro Arg Ala Pro Gly Leu Glu Val Glu Glu Ala Ser Val Pro Ala Ala
 275 280 285
Glu Pro Ser Gly Ser Ala Glu Ala Ser Glu Val Ala Pro Gly Val Gln
 290 295 300
Pro Leu Pro Phe Trp Cys Ser His Ile Ser Arg Leu Val Arg Ser Leu
305 310 315 320
Ser Leu Leu Leu Lys Gly Val His Gly Leu Val Gln Gly Asp Glu Lys
 325 330 335
Pro Ser Thr Arg Pro Leu Gln Asp Thr Cys Arg Glu Ala Ser Ala Ser
 340 345 350
Pro Pro Arg Ser Glu Ala Gln Arg Gln Ile Gln Glu Trp Gly Val Ser
 355 360 365
Val Arg Thr Leu Arg Gly Asn Phe Glu Ser Ala Ser Gly Pro Leu Cys
 370 375 380
Gly Phe Asn Pro Gly Pro Cys Glu Pro Gly Ala Gln His Arg Gln Cys
385 390 395 400
Leu Ser Gly Cys Trp Pro Ala Leu Pro Lys Pro Arg Ser Gly Leu Ala
 405 410 415
Ser Gly Glu Pro Arg Pro Gly Asp Thr Glu Glu Ala Ser Asp Ser Gly
 420 425 430
Ile Ser Cys Glu Glu Val Pro Ser Glu Ala Gly Ala Ala Ala Gly Pro
 435 440 445
Asp Leu Ala Ser Leu Arg Lys Glu Arg Ile Ile Met Leu Phe Leu Ser
 450 455 460

His Trp Arg Arg Ser Ala Tyr Thr Pro Ala Leu Lys Thr Ala Ala Cys
465 470 475 480
Arg Thr Leu Gly Ala Arg His Ala Gly Leu Arg Gly Gln Glu Ala Ala
485 490 495
Arg Ser Pro Gly Pro Pro Ser Pro Pro Ser Glu Gly Pro Arg Leu Gly
500 505 510
His Leu Trp Gln Gln Arg Ser Thr Ile Thr His Leu Leu Gly Asn Trp
515 520 525
Lys Ala Ile Met Ala His Val Pro Ala Arg Gln Leu Arg Arg Leu Ser
530 535 540
Arg Arg Pro Arg Gly Ala Leu Ser Pro Glu Gln Phe Leu Pro His Val
545 550 555 560
Asp Gly Ala Pro Val Pro Tyr Ser Ser Leu Ser Leu Asp Leu Phe Met
565 570 575
Leu Gly Tyr Phe Gln Leu Leu Glu Cys Asp Leu Pro Ala Glu Glu Arg
580 585 590
Lys Leu Arg His Leu Leu Cys Phe Glu Val Phe Glu His Leu Gly Thr
595 600 605
His Gly Trp Glu Ala Val Arg Ala Phe His Lys Ala Val Thr Asp Glu
610 615 620
Val Ala Ala Gly Arg Arg Ala Trp Thr Asp Gly Phe Glu Asp Ile Lys
625 630 635 640
Ala Arg Phe Phe Gly Ser Ser Gln Arg Pro Ala Trp Asp Thr Glu Pro
645 650 655
Gly Arg Lys Ser Gly Leu Thr Leu Leu Gly Pro Leu Pro His Ala Ala
660 665 670
Val Pro Cys Ser Gly Pro Glu Pro Thr Ala Gln Arg Leu Gly Ser Arg
675 680 685
Ser Gln Gln Gly Ser Phe Asn Gly Glu Asp Ile Cys Gly Tyr Ile Asn

690	695	700
Arg Ser Phe Ala Phe Trp Lys Glu Lys Glu Ala Glu Met Phe Asn Phe		
705	710	715
Gly Glu		720

<210> 2381

<211> 236

<212> PRT

<213> Homo sapiens

<400> 2381

Met Leu Thr Pro Ser Ser Gln Val His Ala Tyr Ile Ile Ser Ser Leu		
1	5	10
Lys Lys Glu Met Pro Asn Val Phe Gly Lys Glu Ser Lys Lys Lys Glu		
20	25	30
Leu Val Asn Asn Leu Gly Glu Ile Tyr Gln Lys Ile Glu Arg Glu His		
35	40	45
Gln Ile Ser Pro Gly Asp Phe Pro Ser Leu Arg Lys Met Gln Glu Leu		
50	55	60
Leu Gln Thr Gln Asp Phe Ser Lys Phe Gln Ala Leu Lys Pro Lys Leu		
65	70	75
Leu Asp Thr Val Asp Asp Met Leu Ala Asn Asp Ile Ala Arg Leu Met		
85	90	95
Val Met Val Arg Gln Glu Glu Ser Leu Met Pro Ser Gln Val Val Lys		
100	105	110
Gly Gly Ala Phe Asp Gly Thr Met Asn Gly Pro Phe Gly His Gly Tyr		
115	120	125

Gly Glu Gly Ala Gly Glu Gly Ile Asp Asp Val Glu Trp Val Val Gly
 130 135 140
 Lys Asp Lys Pro Thr Tyr Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val
 145 150 155 160
 Asn Gly Lys Ile Thr Gly Ala Asn Ala Lys Lys Glu Met Val Lys Ser
 165 170 175
 Lys Leu Pro Asn Thr Val Leu Gly Lys Ile Trp Lys Leu Ala Asp Val
 180 185 190
 Asp Lys Asp Gly Leu Leu Asp Asp Glu Glu Phe Ala Leu Ala Asn His
 195 200 205
 Leu Ile Lys Val Lys Leu Glu Gly His Glu Leu Pro Ala Asp Leu Pro
 210 215 220
 Pro His Leu Val Pro Pro Ser Lys Arg Arg His Glu
 225 230 235

<210> 2382

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2382

Met Ile Tyr Ser Thr Leu Thr Arg Arg Arg Trp Pro Met Pro Glu Pro
 1 5 10 15
 Thr Ser Glu His Leu Asn Leu Arg Pro Cys Leu Ile Tyr Val Leu Phe
 20 25 30
 Tyr Val Gln Val Gln Pro Thr Leu Trp Cys Asn Ala Asn Leu Trp Leu
 35 40 45
 Tyr Cys Ile Thr Ala Asn Lys Ser Ile Trp Arg Lys Arg His Leu Val

50 55 60
 Lys Gly His Ser Ala Met Glu Cys Asn Ala Ala Met Cys Asn Ala Ala
 65 70 75 80
 Tyr Lys Lys Thr Leu Gly Lys Tyr Cys Thr Gly Gln Thr Tyr Asp Pro
 85 90 95
 Thr Phe Ser Arg Asn Arg Ala Ala Tyr Trp Met Pro Ser Glu Phe Pro
 100 105 110
 Phe Ser Val Ser Thr Leu Leu Phe Asp Ala Met Pro Pro His Lys Ser
 115 120 125
 Ile Gln Ala Thr Val Ile Tyr Phe Phe Pro Ser Phe Ser Pro Cys Tyr
 130 135 140
 Asn Asp Pro Asn Leu Arg Phe Tyr Phe Val Ile Phe Val Ser Phe Leu
 145 150 155 160
 Arg Gln

<210> 2383

<211> 776

<212> PRT

<213> Homo sapiens

<400> 2383

Met Gly Thr Val Pro Asp Pro Leu Arg Ser Ala Lys Thr Ser Leu Ile
 1 5 10 15
 Ala Ala Ser Gly Lys Glu Asp Asp Leu Gly Glu Pro Gln Ala Ala Ser
 20 25 30
 Pro Arg His Arg Pro Ala Leu Leu Cys Lys Asn Ala Asn Gly Phe Ser
 35 40 45

Gly Ala Pro Ala Glu Pro Asp Leu Ser Pro Arg Ala Ala Ala Glu Ala
50 55 60
Leu Met Gln Val Cys Glu His Glu Thr Thr Gln Pro Asp Met Ser Ser
65 70 75 80
Pro Gly Val Phe Asn Glu Val Gln Lys Ala Pro Ala Thr Phe Asn Ser
85 90 95
Pro Gly Asn Pro Gln Leu Pro Gly Ser Ser Gln Pro Ala Ala Ser Ala
100 105 110
Pro Ser Ser Ala Ala Gly Arg Asp Leu Ile His Thr Pro Leu Thr Met
115 120 125
Pro Ala Asn Gln His Thr Cys Gln Ser Ile Pro Gly Asp Gln Pro Asn
130 135 140
Ala Ile Thr Ser Ser Met Pro Glu Asp Ser Leu Met Arg Ser Gln Arg
145 150 155 160
Thr Ser Asn Arg Glu Gln Pro Glu Lys Pro Ser Cys Pro Val Gly Gly
165 170 175
Val Leu Ser Ser Ser Lys Asp Gln Val Ser Cys Glu Phe Pro Ser Pro
180 185 190
Glu Thr Ile Gln Gly Thr Val Gln Thr Pro Val Thr Ala Ala Arg Val
195 200 205
Val Ser His Ser Ser Ser Pro Val Gly Gly Pro Glu Gly Glu Arg Gln
210 215 220
Gly Ala Ile Cys Asp Ser Glu Met Arg Ser Cys Lys Pro Leu Thr Arg
225 230 235 240
Glu Ser Gly Cys Ser Glu Asn Lys Gln Pro Ser Val Thr Ala Ser Gly
245 250 255
Pro Gln Gly Thr Thr Ser Val Thr Pro Gln Pro Thr Pro Leu Thr Ser
260 265 270
Glu Pro Ser Ala Cys Pro Pro Gly Pro Glu Lys Val Pro Leu Pro Ala

275	280	285
Gln Arg Gln Met Ser Arg Phe Lys Glu Ala Ser Thr Met Thr Asn Gln		
290	295	300
Ala Glu Ser Glu Ile Lys Glu Val Pro Ser Arg Ala Trp Gln Asp Ala		
305	310	315
Glu Val Gln Ala Val Ala Ser Val Glu Ser Arg Ser Val Ser Thr Ser		
325	330	335
Pro Ser Ile Leu Thr Ala Phe Leu Lys Glu Ser Arg Ala Pro Glu His		
340	345	350
Phe Glu Gln Glu Gln Leu Arg Val Ile Cys Arg Ser Ser Gly Ser His		
355	360	365
Thr Leu Glu Leu Ser Asp Ser Thr Leu Ala Pro Gln Glu Ser Ser Gln		
370	375	380
Cys Pro Gly Ile Met Pro Gln Val His Ile Gln Ala Ala Ala Ala Glu		
385	390	395
Ser Thr Ala Phe Gln Arg Glu Asn Lys Leu Ala Ser Leu Pro Gly Gly		
405	410	415
Val Leu Lys Thr Ser Ser Ile Asn Leu Val Ser Ser Asn Ala Gln His		
420	425	430
Thr Cys Lys Glu Asp Gly Arg Leu Ala Gly Met Thr Pro Ala Arg Glu		
435	440	445
Glu Ser Thr Ala Lys Lys Leu Ala Gly Thr Asn Ser Ser Ser Leu Lys		
450	455	460
Ala Thr Ala Ile Asp Gln Ile Ser Ile Ser Ala Cys Ser Gln Ala Glu		
465	470	475
Thr Ser Tyr Gly Leu Gly Lys Phe Glu Thr Arg Pro Ser Glu Phe Ala		
485	490	495
Glu Lys Thr Thr Asn Gly His Lys Thr Asp Pro Asp Cys Lys Leu Ser		
500	505	510

Asp Ser Cys Gly Ser Ile Ser Lys Ala Asp His Ser Gly Ser Leu Asp
515 520 525

Pro Thr Asn Lys Gly Asp Ala Arg Glu Lys Lys Pro Ala Ser Pro Gln
530 535 540

Val Val Lys Glu Lys Glu Ser Thr Gly Thr Asp Thr Ser Asp Ala Lys
545 550 555 560

Thr Leu Leu Leu Asn Pro Lys Ser Gln Glu Ser Gly Gly Thr Glu Ser
565 570 575

Ala Ala Asn Pro Thr Pro Ser Pro Ile Arg Lys Asn Gln Glu Ser Thr
580 585 590

Leu Glu Glu Asn Arg Gln Thr Lys Thr Ala Thr Ser Leu Ser Leu Pro
595 600 605

Ser Asp Pro Met Gly Asp Ser Ser Pro Gly Ser Gly Lys Lys Thr Pro
610 615 620

Ser Arg Ser Val Lys Ala Ser Pro Arg Arg Pro Ser Arg Val Ser Glu
625 630 635 640

Phe Leu Lys Glu Gln Lys Leu Asn Val Thr Ala Ala Ala Ala Gln Val
645 650 655

Gly Leu Thr Pro Gly Asp Lys Lys Lys Gln Leu Gly Ala Asp Ser Lys
660 665 670

Leu Gln Leu Lys Gln Ser Lys Arg Val Arg Asp Val Val Trp Asp Glu
675 680 685

Gln Gly Met Thr Trp Glu Val Tyr Gly Ala Ser Leu Asp Ala Glu Ser
690 695 700

Leu Gly Ile Ala Ile Gln Asn His Leu Gln Arg Gln Ile Arg Glu His
705 710 715 720

Glu Lys Leu Ile Lys Thr Gln Asn Ser Gln Thr Arg Arg Ser Ile Ser
725 730 735

Ser Asp Thr Ser Ser Asn Lys Lys Leu Arg Gly Arg Gln His Ser Val

740 745 750
 Phe Gln Ser Met Leu Gln Asn Phe Arg Arg Pro Asn Cys Cys Val Arg
 755 760 765
 Pro Ala Pro Ser Ser Val Leu Asp
 770 775

<210> 2384

<211> 168

<212> PRT

<213> Homo sapiens

<400> 2384

Met Asn Phe Tyr Thr His Glu Val Cys Leu Gly Gly Pro Leu Leu Trp
 1 5 10 15
 Ala Pro Leu Pro Tyr Asp Gly Ser Ile Cys Ser Leu Leu Phe Gln Glu
 20 25 30
 Asp Leu Arg Pro Thr Ile Asn Gly Ser Gln Ile Gln Ile Pro Leu Gln
 35 40 45
 Ala Ala Asn Val His Pro His Tyr Arg Lys Pro Pro Asp Thr Ser His
 50 55 60
 Leu Leu Ala Ala Gln Asp Thr Gly Thr Gln Ile Leu Ala Cys Pro Glu
 65 70 75 80
 Gln Trp Leu Ser Arg Pro Gly Arg Gly Ala Arg Ala Gln Ser Gln Ala
 85 90 95
 Gly Leu Pro Ala His Phe Cys Leu Pro Gly His His His Leu Pro Pro
 100 105 110
 Arg Met Asn Leu Lys Leu Gln Gly Asn Glu Glu Lys Pro Arg Ser Glu
 115 120 125

Gly Thr Cys Asn Gln Gly Cys Pro Lys Trp Pro Leu Ser Arg Pro Ile
 130 135 140
 Ser Lys Tyr Asn Pro His Arg Gly Cys Leu Val Gly Gln Lys Ser Leu
 145 150 155 160
 Gly Leu Val Pro Val Arg Gly Glu
 165

<210> 2385

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2385

Met Leu Cys Arg Asp Val Ala Pro Glu Gly Ile Ser Val Phe Thr Met
 1 5 10 15
 Asp Met Gly Val Trp Asp Arg Leu Ser Cys Lys Gly Ser Val Ser Ile
 20 25 30
 Ser Trp Asp Ser His Ser Val Ser Leu Ser Arg Phe Gln Val Thr Ser
 35 40 45
 Arg Trp Thr Phe Arg Cys Pro Gly Cys Pro Gln Ala Leu Ser His Asp
 50 55 60
 Asp Ser His Phe His Glu Arg His Lys Cys Ile Asn Phe Phe Val Lys
 65 70 75 80
 Val Tyr Gly Tyr Met Pro Leu Leu Tyr Thr Gln Phe Arg Val Asp Ser
 85 90 95
 Val Leu Phe Lys Thr Arg Leu Pro His Asp Lys Thr Lys Cys Phe Lys
 100 105 110
 Phe Ile

<210> 2386

<211> 291

<212> PRT

<213> Homo sapiens

<400> 2386

Met His Asn Lys Arg Lys Arg Pro Arg Lys Lys Ser Pro Arg Ala His

1 5 10 15

Arg Glu Met Leu Glu Ser Ala Val Leu Pro Pro Glu Asp Met Ser Gln

20 25 30

Ser Gly Pro Ser Gly Ser His Pro Gln Gly Pro Arg Gly Ser Pro Thr

35 40 45

Gly Gly Ala Gln Leu Leu Lys Arg Lys Arg Lys Leu Gly Val Val Pro

50 55 60

Val Asn Gly Ser Gly Leu Ser Thr Pro Ala Trp Pro Pro Leu Gln Gln

65 70 75 80

Glu Gly Pro Pro Thr Gly Pro Ala Glu Gly Ala Asn Ser His Thr Thr

85 90 95

Leu Pro Gln Arg Arg Arg Leu Gln Lys Lys Lys Ala Gly Pro Gly Ser

100 105 110

Leu Glu Leu Cys Gly Leu Pro Ser Gln Lys Thr Ala Ser Leu Lys Lys

115 120 125

Arg Lys Lys Met Arg Val Met Ser Asn Leu Val Glu His Asn Gly Val

130 135 140

Leu Glu Ser Glu Ala Gly Gln Pro Gln Ala Leu Gly Ser Ser Gly Thr

145 150 155 160

Cys Ser Ser Leu Lys Lys Gln Lys Leu Arg Ala Glu Ser Asp Phe Val
 165 170 175
 Lys Phe Asp Thr Pro Phe Leu Pro Lys Pro Leu Phe Phe Arg Arg Ala
 180 185 190
 Lys Ser Ser Thr Ala Thr His Pro Pro Gly Pro Ala Val Gln Leu Asn
 195 200 205
 Lys Thr Pro Ser Ser Ser Lys Lys Val Thr Phe Gly Leu Asn Arg Asn
 210 215 220
 Met Thr Ala Glu Phe Lys Lys Thr Asp Lys Ser Ile Leu Val Ser Pro
 225 230 235 240
 Thr Gly Pro Ser Arg Val Ala Phe Asp Pro Glu Gln Lys Pro Leu His
 245 250 255
 Gly Val Leu Lys Thr Pro Thr Ser Ser Pro Ala Ser Ser Pro Leu Val
 260 265 270
 Ala Lys Lys Pro Leu Thr Thr Thr Pro Arg Arg Arg Pro Arg Ala Met
 275 280 285
 Asp Phe Phe
 290

<210> 2387

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2387

Met Asn His Glu Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu
 1 5 10 15
 Pro Gln Tyr Arg Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met

20	25	30	
Leu Asp His Leu Thr Lys Lys Asp Leu Arg Gly Gln Leu Lys Met Val			
35	40	45	
Asp Ser Phe His Arg Asn Ser Phe Gln Cys Gly Ile Met Cys Leu Arg			
50	55	60	
Arg Leu Asn Tyr Asp Arg Lys Glu Leu Glu Arg Lys Arg Glu Glu Ser			
65	70	75	80
Gln Ser Glu Ile Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile			
85	90	95	
Arg Trp Ile Leu Ser Ile Gly Leu Lys Glu Tyr Ala Asn Asn Leu Ile			
100	105	110	
Glu Ser Gly Val His Gly Ala Leu Leu Ala Leu Asp Glu Thr Phe Asp			
115	120	125	
Phe Ser Ala Leu Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln			
130	135	140	
Ala Arg Ala Val Leu Glu Arg Glu Phe Asn Asn Leu Leu Val Met Gly			
145	150	155	160
Thr Asp Arg Arg Phe Asp Glu Asp Asp Asp Lys Ser Phe Arg Arg Ala			
165	170	175	
Pro Ser Trp Arg Lys Lys Phe Arg Pro Lys Asp Ile Arg Gly Leu Ala			
180	185	190	
Ala Gly Ser Ala Glu Thr Leu Pro Ala Asn Phe Arg Val Thr Ser Ser			
195	200	205	
Met Ser Ser Pro Ser Met Gln Pro Lys Lys Met Gln Met Asp Gly Asn			
210	215	220	
Val Ser Gly Thr Gln Arg Leu Asp Ser Ala Thr Val Arg Thr Tyr Ser			
225	230	235	240
Cys			

<210> 2388

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2388

Met Pro Gln Ile Glu Gly Trp Ser His Arg Leu Pro Arg Leu Ser Pro

1 5 10 15

Leu Pro Val Thr Arg Pro His Ser Phe Leu Pro Pro Arg Arg Ser Gln

20 25 30

Gly Gly Arg Ser Arg Leu Asp Ala Phe Leu Thr Pro Phe Gln Val Ala

35 40 45

Pro Asp Ala Gly His Trp Glu Val Ala Thr Trp Gly His Gly His Glu

50 55 60

Gly Trp Val Ser Val Gly Thr Arg Arg Ala Gly Cys Trp Thr Pro Thr

65 70 75 80

His Pro Val Ser Cys Thr Arg Pro Tyr Ser Leu Cys Ser Gly Pro Gln

85 90 95

Glu Ala Val Arg Ile Gly Gly Val Pro Leu Thr Gly Pro Gly Ala Phe

100 105 110

His Leu Gly Ser Cys His Val His Pro Gln Ala Ser Asp Ser Trp Pro

115 120 125

Arg Gly Arg Trp Cys Gly Pro Gln Ala Val Cys Ala Asp Ala Ala Arg

130 135 140

<210> 2389

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2389

Met Phe Ser Ser Lys Ser Phe Lys Val Leu Ala Leu Ile Phe Arg Leu

1 5 10 15

Leu Ile His Ile Glu Leu Asn Phe Val Tyr Gly Met Ile Asn Phe Ile

20 25 30

Tyr Asp Met Leu Tyr Met Gly Ser Thr Ser Phe Tyr Gly Tyr Leu Val

35 40 45

Val Gln Ala Leu Phe Val Glu Glu Ser Phe Leu Cys Pro Leu Asn Gly

50 55 60

Leu Val Thr Leu Val Glu Asn Lys Pro Tyr Arg Pro Met Leu Ala Ile

65 70 75 80

Gly Phe Ile Ser Gly Leu Ser Ile Leu Phe His Trp Phe Val Cys Val

85 90 95

Phe Leu Ser Leu Asn Asn Thr Ile Leu Ile Ile Val Leu Cys Ser Lys

100 105 110

Phe

<210> 2390

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2390

Met Val Val Val Leu Ala Tyr Ile Pro Thr Ile Ser Val Lys Ala Phe
 1 5 10 15
 Phe His His Val Cys Ala Asn Ile Asn Phe Cys Phe Phe Cys Phe Cys
 20 25 30
 Phe Cys Phe Phe Phe Glu Met Glu Ser Arg Ser Val Thr Gln Ala Gly
 35 40 45
 Val Gln Trp Cys Asp Ile Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe
 50 55 60
 Lys Gln Phe Phe Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg Gln
 65 70 75 80
 Leu Pro Pro Cys Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Ser Val
 85 90 95
 Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr Pro Asp Leu Leu Ile Arg
 100 105 110
 Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln Ala
 115 120

<210> 2391

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2391

Met Ala Trp Arg Pro Pro Ser Pro Asp Leu Gly Pro Gln Ala Gln Gly
 1 5 10 15
 His Ile Glu Gln Glu Asp Gly Ala Leu Pro His Ser Gly Glu Ala Glu
 20 25 30
 Arg Gly Asp Leu Pro Pro Leu Gly Pro Leu Leu Thr Pro Ser Leu Pro

35	40	45
Pro Thr Pro Glu Thr Ser Pro Leu Pro Thr Gly Leu Ala Thr Leu Leu		
50	55	60
Thr Trp Pro Val Leu Asp Leu Val Asp Val Ala Ala Val Gln Arg Lys		
65	70	75
Glu Arg Leu Arg Trp Gln Ser Arg Pro Leu Ser Leu Pro Lys Leu Ser		
85	90	95
Asn Phe Ser Pro Phe Leu Pro Pro Arg Lys Leu Ala Ala Gln Ser His		
100	105	110
Val Gln Asn Pro Ala Gly His Leu His Gly Ala Asn Tyr Gln Gln Val		
115	120	125
Ser Phe Leu Arg His Arg Val Gln Ala Ala Thr Pro Ala Pro Glu Met		
130	135	140
Lys Gly Gln Leu Cys Lys Asp Pro Glu Pro Ala Pro Arg Gly Pro Glu		
145	150	155
Pro Pro Thr		160

<210> 2392

<211> 175

<212> PRT

<213> Homo sapiens

<400> 2392

Met His Ala His Lys Gln Ala Ser Thr His Val His Ile Thr His Thr
1 5 10 15
Ser Arg His Ser Cys Thr Asp Ser Tyr Thr Gly His Val Pro Ala Arg
20 25 30

Thr Cys Thr His Thr His Ala Gln Ala Leu Met His Arg Cys Thr His
 35 40 45
 Thr Gln Gly Met Tyr Leu His Thr Arg Val Asn Thr Arg Thr Gly Thr
 50 55 60
 His Ala Asp Ala Arg Ile His Ser Ala Ser Thr Cys Thr Arg Val His
 65 70 75 80
 Ile His Ala His Ala Gly Thr His Ala Gln Met His Thr Gln Cys Thr
 85 90 95
 Tyr Leu His Thr Arg Val His Thr His Thr His Arg His Ser Cys Pro
 100 105 110
 Asp Ala Asn Ile His Cys Thr Tyr Leu His Thr Arg Ala His Thr His
 115 120 125
 Ala Gln Ala Leu Met Gln Thr Tyr Ala Gln Cys Thr Tyr Leu His Thr
 130 135 140
 Arg Thr His Thr His Thr Gln Ala Leu Met His Arg Cys Thr His Thr
 145 150 155 160
 Gln Cys Thr Tyr Leu His Thr Arg Val His Ala His Thr Val Pro
 165 170 175

<210> 2393

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2393

Met Pro Glu Gln Ser Asn Asp Tyr Arg Val Ala Val Phe Gly Ala Gly
 1 5 10 15
 Gly Val Gly Lys Ser Ser Leu Val Leu Arg Phe Val Lys Gly Thr Phe

20	25	30
Arg Glu Ser Tyr Ile Pro Thr Val Glu Asp Thr Tyr Arg Gln Val Ile		
35	40	45
Ser Cys Asp Lys Ser Ile Cys Thr Leu Gln Ile Thr Asp Thr Thr Gly		
50	55	60
Ser His Gln Phe Pro Ala Met Gln Arg Leu Ser Ile Ser Ile Thr Ser		
65	70	75
Arg Gln Ser Leu Glu Glu Leu Lys Pro Ile Tyr Glu Gln Ile Cys Glu		
85	90	95
Ile Lys Gly Asp Val Glu Ser Ile Pro Ile Met Leu Val Gly Asn Lys		
100	105	110
Cys Asp Glu Ser Pro Ser Arg Glu Val Gln Ser Ser Glu Ala Glu Ala		
115	120	125
Leu Ala Arg Thr Trp Lys Cys Ala Phe Met Glu Thr Ser Ala Lys Leu		
130	135	140
Asn His Asn Val Lys Glu Leu Phe Gln Glu Leu Leu Asn Leu Glu Lys		
145	150	155
Arg Arg Thr Val Ser Leu Gln Ile Asp Gly Lys Lys Ser Lys Gln Gln		
165	170	175
Lys Arg Lys Glu Lys Leu Lys Gly Lys Cys Val Ile Met		
180	185	

<210> 2394

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2394

Met Ala Ala Ser Gln Gln Gln Ala Ser Ala Ala Ser Ser Ala Ala Gly
1 5 10 15
Val Ser Gly Pro Ser Ser Ala Gly Gly Pro Gly Pro Gln Gln Gln Pro
20 25 30
Gln Pro Pro Ala Gln Leu Val Gly Pro Ala Gln Ser Gly Leu Leu Gln
35 40 45
Arg Tyr Lys Met Leu Ile Pro Gln Leu Lys Glu Ser Leu Gln Thr Leu
50 55 60
Met Lys Val Ala Ala Gln Asn Leu Ile Gln Asn Thr Asn Ile Asp Asn
65 70 75 80
Gly Gln Lys Ser Ser Asp Gly Pro Ile Gln Arg Phe Asp Lys Cys Leu
85 90 95
Glu Glu Phe Tyr Ala Leu Cys Asp Gln Leu Glu Leu Cys Leu Arg Leu
100 105 110
Ala His Glu Cys Leu Ser Gln Ser Cys Asp Ser Ala Lys His Ser Pro
115 120 125
Thr Leu Val Pro Thr Ala Thr Lys Pro Asp Ala Val Gln Pro Asp Ser
130 135 140
Leu Pro Tyr Pro Gln Tyr Leu Ala Val Ile Lys Ala Gln Ile Ser Cys
145 150 155 160
Ala Lys Asp Ile His Thr Ala Leu Leu Asp Cys Ala Asn Lys Val Thr
165 170 175
Gly Lys Thr Pro Ala Pro Pro Ala Gly Pro Gly Gly Thr Leu
180 185 190

<210> 2395

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2395

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Met Ser Glu Phe Pro Phe Thr Thr Asn Arg Ile Lys Tyr Leu Gly Ile
  1             5             10             15
Gln Leu Thr Arg Asp Val Lys Asp Leu Phe Lys Glu His Tyr Lys Pro
      20             25             30
Leu Leu Lys Glu Ile Arg Gly His Lys Gln Met Glu Lys Asn Ile Leu
      35             40             45
Cys Ser Trp Ile Gly Arg Ile Asn Ile Val Lys Met Ala Ile Leu Pro
      50             55             60
Lys Val Ile Tyr Arg Phe Lys Ala Thr Pro Ile Lys Leu Pro Leu Thr
      65             70             75             80
Phe Phe Ala Glu Leu Glu Lys Thr Thr Leu Asn Phe Leu Trp Asn His
      85             90             95
Lys Arg Ala His Ile Val Lys Thr Ile Leu Ser Lys Lys Lys Ala Gly
      100            105            110
Gly Ile Arg Leu Pro Asp Phe Lys Leu Tyr Tyr Lys Ala Asn Gln Asn
      115            120            125
Thr Tyr Arg Gly Gln Trp Asn Arg Thr Glu Thr Ser Glu Ile Thr Pro
      130            135            140
Asp Ile Tyr Leu Gly Ile Gln Leu Val Ser Asn Ser Arg Pro Gln Val
      145            150            155            160
Ile Leu Leu Pro Trp Pro Pro Lys Val Leu Gly Leu Gln Ala
      165            170

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<210> 2396

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2396

Met Leu Ala Cys Cys Ser Pro Pro Thr Met Gln Pro Gly Ser Tyr Gln

1 5 10 15

Ala Thr Asp Gln Tyr Gln Ser Thr Ala Gln Gly Leu Gly Thr Pro Gly

20 25 30

Val Ser Ser Gly Ser Phe Ala Leu Pro Met Pro Pro Gly Leu Ala Ala

35 40 45

Val Leu Glu Thr Gly Val Ser Arg Arg Leu Cys Ser Trp Trp Ala Gly

50 55 60

Ala Glu Met Ala Glu Ala His Pro Ile Ile Cys Gln Lys Glu Asp Thr

65 70 75 80

Leu Val Ser Pro Gly Leu Gly Thr Leu Gln Phe Ala Ala Leu Leu Arg

85 90 95

Leu Ala Ser Gly Gln Leu Leu Thr Leu Pro Leu Thr Pro Gln Ser Gln

100 105 110

Ala Pro Asp Ala Pro Trp Thr Ser Pro Thr Pro Arg Val Ile Trp Ser

115 120 125

Gly Ser Ala Gly Val Thr Leu Ser Leu Thr Lys Gly Phe

130 135 140

<210> 2397

<211> 445

<212> PRT

<213> Homo sapiens

<400> 2397

Met	Pro	Asn	Ser	Ser	Pro	Lys	Asp	Pro	Thr	Thr	Ala	Ser	Gly	Asn	Gly
1				5					10					15	
Ser	Lys	Val	Glu	Arg	Glu	Lys	Arg	Lys	Asp	Glu	Leu	Leu	Asn	Ile	Ala
			20					25					30		
Lys	Ser	Lys	Gln	Glu	Arg	Thr	Asn	Ser	Glu	Leu	His	Asn	Leu	Arg	Gln
		35					40					45			
Ile	Tyr	Val	Lys	Gln	Gln	Ser	Asp	Leu	Gln	Phe	Leu	Asn	Phe	Asn	Val
	50					55					60				
Glu	Asn	Ser	Gln	Glu	Leu	Ile	Gln	Met	Tyr	Asp	Ser	Lys	Met	Glu	Glu
65					70					75				80	
Ser	Lys	Ala	Leu	Asp	Ser	Ser	Arg	Asp	Met	Cys	Leu	Ser	Asp	Leu	Glu
			85						90				95		
Asn	Asn	His	Pro	Lys	Val	Asp	Ile	Lys	Arg	Glu	Lys	Asn	Gln	Lys	Ser
			100					105					110		
Leu	Phe	Lys	Asp	Gln	Lys	Phe	Glu	Ala	Met	Leu	Val	Gln	Gln	Asn	Arg
		115					120					125			
Ser	Asp	Lys	Ser	Ser	Cys	Asp	Glu	Cys	Lys	Glu	Lys	Lys	Gln	Gln	Ile
	130					135					140				
Asp	Thr	Val	Phe	Gly	Glu	Lys	Ser	Val	Ile	Thr	Leu	Ser	Ser	Ile	Phe
145					150					155				160	
Thr	Lys	Asp	Leu	Val	Glu	Lys	His	Asn	Leu	Pro	Trp	Ser	Leu	Gly	Gly
			165						170				175		
Lys	Thr	Gln	Ile	Glu	Pro	Glu	Asn	Lys	Ile	Thr	Leu	Cys	Lys	Ile	His
		180						185				190			
Thr	Lys	Ser	Pro	Lys	Cys	His	Gly	Thr	Gly	Val	Gln	Asn	Glu	Gly	Lys
		195					200					205			
Gln	Pro	Ser	Glu	Thr	Pro	Thr	Leu	Ser	Asp	Glu	Lys	Gln	Trp	His	Asp
	210						215					220			

Val	Ser	Val	Tyr	Leu	Gly	Leu	Thr	Asn	Cys	Pro	Ser	Ser	Lys	His	Pro
225					230					235					240
Glu	Lys	Leu	Asp	Val	Glu	Cys	Gln	Asp	Gln	Met	Glu	Arg	Ser	Glu	Ile
				245					250					255	
Ser	Cys	Cys	Gln	Lys	Asn	Glu	Ala	Cys	Leu	Gly	Glu	Ser	Gly	Met	Cys
			260					265						270	
Asp	Ser	Lys	Cys	Cys	His	Pro	Ser	Asn	Phe	Ile	Ile	Glu	Ala	Pro	Gly
		275					280						285		
His	Met	Ser	Asp	Val	Glu	Trp	Met	Ser	Ile	Phe	Lys	Pro	Ser	Lys	Met
	290						295					300			
Gln	Arg	Ile	Val	Arg	Leu	Lys	Ser	Gly	Cys	Thr	Cys	Ser	Glu	Ser	Ile
305					310					315					320
Cys	Gly	Thr	Gln	His	Asp	Ser	Pro	Ala	Ser	Glu	Leu	Ile	Ala	Ile	Gln
			325					330						335	
Asp	Ser	His	Ser	Leu	Gly	Ser	Ser	Lys	Ser	Ala	Leu	Arg	Glu	Asp	Glu
		340						345						350	
Thr	Glu	Ser	Ser	Ser	Asn	Lys	Lys	Asn	Ser	Pro	Thr	Ser	Leu	Leu	Ile
		355					360						365		
Tyr	Lys	Asp	Ala	Pro	Ala	Phe	Asn	Glu	Lys	Ala	Ser	Ile	Val	Leu	Pro
	370					375						380			
Ser	Gln	Asp	Asp	Phe	Ser	Pro	Thr	Ser	Lys	Leu	Gln	Arg	Leu	Leu	Ala
385					390					395					400
Glu	Ser	Arg	Gln	Met	Val	Thr	Asp	Leu	Glu	Leu	Ser	Thr	Leu	Leu	Pro
			405					410					415		
Ile	Ser	His	Glu	Asn	Leu	Thr	Gly	Ser	Ala	Thr	Asn	Lys	Ser	Glu	Val
		420					425						430		
Pro	Glu	Glu	Ser	Ala	Gln	Lys	Asn	Thr	Phe	Val	Ser	Tyr			
		435					440					445			

<210> 2398

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2398

Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val Pro

1 5 10 15

Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp Met

20 25 30

Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu Phe

35 40 45

Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp Pro

50 55 60

Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu His

65 70 75 80

Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp Asp

85 90 95

Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr Tyr

100 105 110

Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val Ala

115 120 125

Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln Lys

130 135 140

Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg Gly

145 150 155 160

Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met Thr

165 170 175

Val Thr Leu Asp Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp Arg
 180 185 190
 Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro Val
 195 200 205
 Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp Pro
 210 215 220
 Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys Thr
 225 230 235 240
 His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro Ala
 245 250 255
 Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala Phe
 260 265 270
 Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met Val
 275 280 285
 Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met Cys
 290 295 300
 Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile Val
 305 310 315 320
 Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys Thr
 325 330 335
 Tyr Thr Val

<210> 2399

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2399

Met Ser Pro Trp Lys Asp Gly Gly Ser Leu Val Glu Val Tyr Leu Leu
 1 5 10 15
 Asp Thr Ser Ile Gln Ser Asp His Arg Glu Ile Glu Gly Arg Val Met
 20 25 30
 Val Thr Asp Phe Glu Asn Val Pro Glu Glu Asp Gly Thr Arg Phe His
 35 40 45
 Arg Gln Ala Ser Lys Cys Asp Ser His Gly Thr His Leu Ala Gly Val
 50 55 60
 Val Ser Gly Arg Asp Ala Gly Val Ala Lys Gly Ala Ser Met Arg Ser
 65 70 75 80
 Leu Arg Val Leu Asn Cys Gln Gly Lys Gly Thr Val Ser Gly Thr Leu
 85 90 95
 Ile Gly Leu Glu Phe Ile Arg Lys Ser Gln Leu Val Gln Pro Val Gly
 100 105 110
 Pro Leu Val Val Leu Leu Pro Leu Ala Gly Gly Tyr Ser Arg Val Leu
 115 120 125
 Asn Ala Ala Cys Gln Arg Leu Ala Arg Ala Gly Val Val Leu Val Thr
 130 135 140
 Ala Ala Gly Asn Phe Arg Asp Asp Ala Cys Leu Tyr Ser Pro Ala Ser
 145 150 155 160
 Ala Pro Glu Gly Arg Thr Ser Leu Val Pro Pro Ala Thr Ala Ala Pro
 165 170 175
 Ala Leu Cys His Arg Val Gly His His Arg Leu Leu Pro Thr Trp Leu
 180 185 190
 Ala Leu Gln Pro
 195

<210> 2400

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2400

Met Cys His Tyr Ala Trp Leu Ile Phe Val Glu Met Arg Phe His His

1 5 10 15

Val Ala Gln Ala Gly Leu Tyr Leu Leu Ser Ser Ser Asp Leu Pro Ala

20 25 30

Ser Ala Ser Gln Cys Trp Val Cys Arg His Glu Pro Leu Cys Pro Val

35 40 45

Arg Met Ala Ile Leu Met Ile Lys Ala Lys Ile Phe Ile Leu Leu Ser

50 55 60

Arg Phe Gly Ile His Ile Pro Glu Asn Ser Met Ile His Pro Leu Thr

65 70 75 80

Thr Asn Phe Arg Lys Gln Ala Val Leu Phe His Ser Leu Lys Asn Asn

85 90 95

Arg Ser Pro Ser Asn Lys

100

<210> 2401

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2401

Met Lys Phe Phe His Asp Leu Asp Val Ile Leu Gln Tyr Glu Pro Ala

1	5	10	15												
Thr	Gln	Phe	Thr	Glu	Glu	Asp	Ala	Asn	Gly	Arg	Tyr	Leu	Glu	Thr	Leu
20				25				30							
Ser	Pro	Ser	Thr	Ala	Pro	Glu	Thr	Thr	Glu	Glu	Phe	Leu	Leu	Val	Cys
35				40				45							
Asp	Thr	Arg	Lys	Lys	Gly	Arg	Lys	Arg	Lys	Cys	Leu	Phe	His	Cys	Trp
50				55				60							
Asp	Gln	Pro	His	Ala	Ser	Gly	Lys	Met	Ser	Ile	Ala	Ser	Val	Asp	Lys
65				70				75				80			
Glu	Asp	Val	Ser	Gly	Asn	Pro	Leu	Leu	Leu	Val	Ser	His	Val	Arg	Pro
85				90				95							
Met	Glu	Leu	Gly	Thr	Leu	Arg	Gln	Tyr	Trp	Asn	Pro	Leu	Ile	Ile	Gln
100				105				110							
Leu	Leu	Thr	Gln	Leu											
115															

<210> 2402

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2402

Met	Gln	Ser	Lys	Leu	Ile	Leu	Ser	Leu	Cys	Thr	Phe	Val	Ser	Ala	Gly
1	5	10	15												
His	Cys	Leu	Phe	Arg	Glu	Leu	Val	Ala	Gln	Gly	Leu	His	Met	Gly	Ala
20				25				30							
Lys	Met	Val	Val	Asp	Thr	Pro	Trp	Cys	Thr	Phe	Cys	Phe	Thr	Cys	Phe
35				40				45							

Leu Arg Leu Phe His Lys Ser Cys Glu Ala Lys Lys Gln Asn Lys Thr
 50 55 60
 Lys Gln Pro Asn Lys Tyr Asn Leu Thr Phe Thr Gln Ser Thr Ala Gly
 65 70 75 80
 Asn Gln Arg Ser Gly Trp Asn Glu Arg Lys Tyr Ala Lys Arg Ser Phe
 85 90 95
 Leu Ser Leu Ile Ser Cys Leu
 100

<210> 2403

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2403

Met Gln Glu Gly Pro Ser Gly Ala Gly Leu Gly Pro His Ile Gly Leu
 1 5 10 15
 Pro Gly His Leu Ile Tyr Leu Gly Ser Asn Lys Glu Pro Trp Arg Gln
 20 25 30
 Ala Arg Ala Val Ala Lys Arg Pro Arg Ser Cys Gly Thr Arg Leu Val
 35 40 45
 Pro Ala Ser Val Pro Leu Ser Leu Glu Phe Gly Arg Ala Leu Ser Ser
 50 55 60
 Ala Gly Val Cys Ser Arg Pro Met Pro Glu Val Gly Pro Leu Ala Ile
 65 70 75 80
 Val Ser Ile Gly Gly Val Ser Ser Pro Pro Ser Gly Asn Pro Tyr Ser
 85 90 95
 Gly Thr Leu His Cys Cys Gly Gly Val His Thr Gly Gly Cys Glu Ser

100	105	110	
His Cys Ala Val Leu Ala Gln Gly Ser Gly Lys Gly Phe Trp Glu Gly			
115	120	125	
Met Gly Thr Lys Leu Asp Leu Asn Asp Glu Ala Glu Leu Val Ser Gln			
130	135	140	
Ala Arg Gly Val Gln Arg Asp His Ser Ala Glu Ala Lys Ala Val Lys			
145	150	155	160
Lys Val Ala Trp Met Val Thr His Arg Ser Arg Ala			
165	170		

<210> 2404

<211> 711

<212> PRT

<213> Homo sapiens

<400> 2404

Met Leu Ala Ser Leu Lys Val Lys Lys Gln Glu Leu Ala Asn Ser Ser			
1	5	10	15
Asp Ala Thr Leu Pro Asp Arg Pro Leu Ser Pro Pro Leu Thr Ala Pro			
20	25	30	
Pro Thr Met Lys Ser Ser Glu Phe Phe Glu Met Leu Glu Lys Met Gln			
35	40	45	
Gly Ile Lys Leu Glu Glu Gln Lys Pro Gly Pro Gln Lys Asn Lys Asp			
50	55	60	
Asp Tyr Ile Pro Tyr Pro Ser Ile Asp Glu Val Val Glu Lys Gly Gly			
65	70	75	80
Pro Tyr Pro Gln Val Ile Leu Pro Gln Phe Gly Gly Tyr Trp Ile Glu			
85	90	95	

Asp Pro Glu Asn Val Gly Thr Pro Thr Ser Leu Gly Ser Ser Ile Cys
 100 105 110
 Glu Glu Glu Glu Glu Asp Asn Leu Ser Pro Asn Thr Phe Gly Tyr Lys
 115 120 125
 Leu Glu Cys Lys Gly Glu Ala Arg Ala Tyr Arg Arg His Phe Leu Gly
 130 135 140
 Lys Asp His Leu Asn Phe Tyr Cys Thr Gly Ser Ser Leu Gly Asn Leu
 145 150 155 160
 Ile Leu Ser Val Lys Cys Glu Glu Ala Glu Gly Ile Glu Tyr Leu Arg
 165 170 175
 Val Ile Leu Arg Ser Lys Leu Lys Thr Val His Glu Arg Ile Pro Leu
 180 185 190
 Ala Gly Leu Ser Lys Leu Pro Ser Val Pro Gln Ile Ala Lys Ala Phe
 195 200 205
 Cys Asp Asp Ala Val Gly Leu Arg Phe Asn Pro Val Leu Tyr Pro Lys
 210 215 220
 Ala Ser Gln Met Ile Val Ser Tyr Asp Glu His Glu Val Asn Asn Thr
 225 230 235 240
 Phe Lys Phe Gly Val Ile Tyr Gln Lys Ala Arg Gln Thr Leu Glu Glu
 245 250 255
 Glu Leu Phe Gly Asn Asn Glu Glu Ser Leu Ala Phe Lys Glu Phe Leu
 260 265 270
 Asp Leu Leu Gly Asp Thr Ile Thr Leu Gln Asp Phe Lys Gly Phe Arg
 275 280 285
 Gly Gly Leu Asp Val Thr His Gly Gln Thr Gly Val Glu Ser Val Tyr
 290 295 300
 Thr Thr Phe Arg Asp Arg Glu Ile Met Phe His Val Ser Thr Lys Leu
 305 310 315 320
 Pro Phe Thr Asp Gly Asp Ala Gln Gln Leu Gln Arg Lys Arg His Ile

325	330	335
Gly Asn Asp Ile Val Ala Ile Ile Phe Gln Glu Glu Asn Thr Pro Phe		
340	345	350
Val Pro Asp Met Ile Ala Ser Asn Phe Leu His Ala Tyr Ile Val Val		
355	360	365
Gln Val Glu Thr Pro Gly Thr Glu Thr Pro Ser Tyr Lys Val Ser Val		
370	375	380
Thr Ala Arg Glu Asp Val Pro Thr Phe Gly Pro Pro Leu Pro Ser Pro		
385	390	395
Pro Val Phe Gln Lys Gly Pro Glu Phe Arg Glu Phe Leu Leu Thr Lys		
405	410	415
Leu Thr Asn Ala Glu Asn Ala Cys Cys Lys Ser Asp Lys Phe Ala Lys		
420	425	430
Leu Glu Asp Arg Thr Arg Ala Ala Leu Leu Asp Asn Leu His Asp Glu		
435	440	445
Leu His Ala His Thr Gln Ala Met Leu Gly Leu Gly Pro Glu Glu Asp		
450	455	460
Lys Phe Glu Asn Gly Gly His Gly Gly Phe Leu Glu Ser Phe Lys Arg		
465	470	475
Ala Ile Arg Val Arg Ser His Ser Met Glu Thr Met Val Gly Gly Gln		
485	490	495
Lys Lys Ser His Ser Gly Gly Ile Pro Gly Ser Leu Ser Gly Gly Ile		
500	505	510
Ser His Asn Ser Met Glu Val Thr Lys Thr Thr Phe Ser Pro Pro Val		
515	520	525
Val Ala Ala Thr Val Lys Asn Gln Ser Arg Ser Pro Ile Lys Arg Arg		
530	535	540
Ser Gly Leu Phe Pro Arg Leu His Thr Gly Ser Glu Gly Gln Gly Asp		
545	550	555
		560

Ser Arg Ala Arg Cys Asp Ser Thr Ser Ser Thr Pro Lys Thr Pro Asp

565

570

575

Gly Gly His Ser Ser Gln Glu Ile Lys Ser Glu Thr Ser Ser Asn Pro

580

585

590

Ser Ser Pro Glu Ile Cys Pro Asn Lys Glu Lys Pro Phe Met Lys Leu

595

600

605

Lys Glu Asn Gly Arg Ala Ile Ser Arg Ser Ser Ser Ser Thr Ser Ser

610

615

620

Val Ser Ser Thr Ala Gly Glu Gly Glu Ala Met Glu Glu Gly Asp Ser

625

630

635

640

Gly Gly Ser Gln Pro Ser Thr Thr Ser Pro Phe Lys Gln Glu Val Phe

645

650

655

Val Tyr Ser Pro Ser Pro Ser Ser Glu Ser Pro Ser Leu Gly Ala Ala

660

665

670

Ala Thr Pro Ile Ile Met Ser Arg Ser Pro Thr Asp Ala Lys Ser Arg

675

680

685

Asn Ser Pro Arg Ser Asn Leu Lys Phe Arg Phe Asp Lys Leu Ser His

690

695

700

Ala Ser Ser Gly Ala Gly His

705

710

<210> 2405

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2405

Met Glu His Met Glu Phe Arg Arg Lys Pro Thr Lys Thr Pro Ala Cys

1 5 10 15
Gln Thr His Pro Val Pro Glu Arg Gly Val Pro Leu Ser Phe Asn Glu
 20 25 30
Leu Pro Val Ile Thr Ala Met Pro Ser Pro Arg Trp Gly Gly Val Leu
 35 40 45
Gly Cys Phe Ser Gln Arg Pro Leu Phe Pro Ala Ala Ile Ser Phe Thr
 50 55 60
Trp Thr Thr Leu Leu Ala His Val Pro Leu Ala Ser Thr Gly Gly His
65 70 75 80
Arg Pro Glu Pro Trp Val Gln Gly Cys Pro Ser Leu Leu Pro Ser Pro
 85 90 95
Pro Leu Lys Ala Gln Ser Cys Trp Val Gly Cys Leu Gly Leu Pro Ser
 100 105 110
Phe Pro Trp Lys Pro Val Ala Thr Leu Val His Gly Thr Leu Asp Lys
 115 120 125
Ser Ala Pro Arg Gly Gln Thr Cys Ala Pro Ile Leu Ala Cys Ile Leu
 130 135 140
Arg Thr Pro His Ala Ala Gly Leu Cys Ala Trp Gly Gly Val Ala Ser
145 150 155 160
Leu Ser Trp Ser Val
 165

<210> 2406

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2406

Met Ala His Gly Ser Thr Gln Ala Phe Leu Ser Pro Trp Ser Ser Gln
 1 5 10 15
 Leu Leu Thr Ser Thr Thr Cys Arg Ile Arg Gly His Arg Ser Arg Gln
 20 25 30
 Arg Glu Gly Val Thr Arg Gly Gln Met Val Gln Gly Arg Arg Asp Ser
 35 40 45
 Arg Leu His Ala Gly Gln Arg Asn Ser Lys Gly Arg Arg Ile Ala Glu
 50 55 60
 Ala Gly Gly Lys Ala Ala Arg Ala Arg Gly Thr Gln Ser Tyr Cys Thr
 65 70 75 80
 Pro Lys Arg Gln Pro Val Leu Glu Arg Ala Ala Ala Lys Pro Ile Tyr
 85 90 95
 Cys Ser Phe Tyr Tyr Ser Val Leu Pro Gly Leu Arg Pro Gly Lys Leu
 100 105 110
 Phe Gln Ala Glu Ile Thr Ala His
 115 120

<210> 2407

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2407

Met Gly Glu Cys Tyr Pro Cys Gln Val Val Gly Ala Ser Trp Leu Gln
 1 5 10 15
 Ser Trp Val Gly Asp Leu Gly Lys Met Leu Trp Lys Ala Val Ser Gly
 20 25 30
 Trp Cys Gln Leu Leu Val Val Gln Trp Glu Ile Trp Ser Gly Met Gly

35 40 45
 Trp Ser Glu Gly Gly Arg Gly Ile Trp Cys Gly Val Asp Gln Arg Asn
 50 55 60
 Phe Gly Lys Ala Trp Lys His Ser Tyr Val Cys Glu Thr His Leu Cys
 65 70 75 80
 Gln Gly Lys Asp Ser Lys Leu Lys Phe Phe Ser Cys Leu Leu Val Thr
 85 90 95
 Arg Thr Trp Leu Trp Ser Val Thr Leu Ala
 100 105

<210> 2408

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2408

Met Pro Phe Pro Pro Arg Pro Ala Pro Arg Pro Pro Ser Arg Thr Ala
 1 5 10 15
 Ala Leu Gly Glu Asp Glu Asp Gly Arg Lys Val Arg Ala Gly Leu Ser
 20 25 30
 Thr Gly Lys Arg Glu Gln Asp Gly Asp Phe Gly Arg Gln Trp Gly Glu
 35 40 45
 Leu Met Gly Arg Val Gln Ala Pro Phe Leu Gln Pro Leu Ala Thr Trp
 50 55 60
 Ser Ser Asp Gly Gly Ala Val Leu Ser Leu Thr Pro Glu Thr Leu Ile
 65 70 75 80
 Pro Ala Val Leu Arg Gly Val Asp Asn Lys Phe His Phe Pro Ser Pro
 85 90 95

Val Leu Phe Trp Glu Val Gly Thr Pro Gly Phe Gly Gly

100

105

<210> 2409

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2409

Met Ile Ser Ile Thr Glu Trp Gln Lys Ile Gly Val Gly Ile Thr Gly

1

5

10

15

Phe Gly Ile Phe Phe Ile Leu Phe Gly Thr Leu Leu Tyr Phe Asp Ser

20

25

30

Val Leu Leu Ala Phe Gly Asn Leu Leu Phe Leu Thr Gly Leu Ser Leu

35

40

45

Ile Ile Gly Leu Arg Lys Thr Phe Trp Phe Phe Phe Gln Arg His Lys

50

55

60

Leu Lys Gly Thr Ser Phe Leu Leu Gly Gly Val Val Ile Val Leu Leu

65

70

75

80

Arg Trp Pro Leu Leu Gly Met Phe Leu Glu Thr Tyr Gly Phe Phe Ser

85

90

95

Leu Phe Lys Gly Phe Phe Pro Val Ala Phe Gly Phe Leu Gly Asn Val

100

105

110

Cys Asn Ile Pro Phe Leu Gly Ala Leu Phe Arg Arg Leu Gln Gly Thr

115

120

125

Ser Ser Met Val

130

<210> 2410

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2410

Met Ala Glu Ala Ser Ser Ala Asn Leu Gly Ser Gly Cys Glu Glu Lys

1 5 10 15

Arg His Glu Gly Ser Ser Ser Glu Ser Val Pro Pro Gly Thr Thr Ile

20 25 30

Ser Arg Val Lys Leu Leu Asp Thr Met Val Asp Thr Phe Leu Gln Lys

35 40 45

Leu Val Ala Ala Gly Ser Tyr Gln Arg Phe Thr Asp Cys Tyr Lys Cys

50 55 60

Phe Tyr Gln Leu Gln Pro Ala Met Thr Gln Arg Ile Tyr Asp Lys Phe

65 70 75 80

Ile Ala Gln Leu Gln Thr Ser Ile Arg Glu Glu Ile Ser Asp Ile Lys

85 90 95

Glu Glu Gly Asn Leu Glu Ala Val Leu Asn Ala Leu Asp Lys Ile Val

100 105 110

Glu Glu Gly Lys Val Arg Lys Glu Pro Ala Cys Asn Gly Thr Pro Cys

115 120 125

Gly Ala Met Cys Arg Asn Arg Arg Pro Arg Thr Ser Ser Trp Gln Met

130 135 140

Pro Ser Trp Gln Gly Gly Gly Arg Trp Arg Ser Cys Ser Tyr Arg Ser

145 150 155 160

Arg Pro Ser Ser Arg Pro Gly Arg Leu Tyr Thr Glu Asn Arg Gly Ser

165 170 175

Trp Leu Leu Cys

180

<210> 2411

<211> 409

<212> PRT

<213> Homo sapiens

<400> 2411

Met Gly Ser Gln Ala Ala Ala Glu Trp Arg Asn Trp Ala Ser Trp Glu

1 5 10 15

Val Ser Ser Ser Leu Ser Gly Cys Ser Met Gly Cys Phe Lys Asp Asp

20 25 30

Arg Ile Val Phe Trp Thr Trp Met Phe Ser Thr Tyr Phe Met Glu Lys

35 40 45

Trp Ala Pro Arg Gln Asp Asp Met Leu Phe Tyr Val Arg Arg Lys Leu

50 55 60

Ala Tyr Ser Gly Ser Glu Ser Gly Ala Asp Gly Arg Lys Ala Ala Glu

65 70 75 80

Pro Glu Val Glu Val Glu Val Tyr Arg Arg Asp Ser Lys Lys Leu Pro

85 90 95

Gly Leu Gly Asp Pro Asp Ile Asp Trp Glu Glu Ser Val Cys Leu Asn

100 105 110

Leu Ile Leu Gln Lys Leu Asp Tyr Met Val Thr Cys Ala Val Cys Thr

115 120 125

Arg Ala Asp Gly Gly Asp Ile His Ile His Lys Lys Lys Ser Gln Gln

130 135 140

Val Phe Ala Ser Pro Ser Lys His Pro Met Asp Ser Lys Gly Glu Glu

145 150 155 160
Ser Lys Ile Ser Tyr Pro Asn Ile Phe Phe Met Ile Asp Ser Phe Glu
 165 170 175
Glu Val Phe Ser Asp Met Thr Val Gly Glu Gly Glu Met Val Cys Val
 180 185 190
Glu Leu Val Ala Ser Asp Lys Thr Asn Thr Phe Gln Gly Val Ile Phe
 195 200 205
Gln Gly Ser Ile Arg Tyr Glu Ala Leu Lys Lys Val Tyr Asp Asn Arg
 210 215 220
Val Ser Val Ala Ala Arg Met Ala Gln Lys Met Ser Phe Gly Phe Tyr
225 230 235 240
Lys Tyr Ser Asn Met Glu Phe Val Arg Met Lys Gly Pro Gln Gly Lys
 245 250 255
Gly His Ala Glu Met Ala Val Ser Arg Val Ser Thr Gly Asp Thr Ser
 260 265 270
Pro Cys Gly Thr Glu Glu Asp Ser Ser Pro Ala Ser Pro Met His Glu
 275 280 285
Arg Val Thr Ser Phe Ser Thr Pro Pro Thr Pro Glu Arg Asn Asn Arg
 290 295 300
Pro Ala Phe Phe Ser Pro Ser Leu Lys Arg Lys Val Pro Arg Asn Arg
305 310 315 320
Ile Ala Glu Met Lys Lys Ser His Ser Ala Asn Asp Ser Glu Glu Phe
 325 330 335
Phe Arg Glu Asp Asp Gly Gly Ala Asp Leu His Asn Ala Thr Asn Leu
 340 345 350
Arg Ser Arg Ser Leu Ser Gly Thr Gly Arg Ser Leu Val Gly Ser Trp
 355 360 365
Leu Lys Leu Asn Arg Ala Asp Gly Asn Phe Leu Leu Tyr Ala His Leu
 370 375 380

Thr Tyr Val Thr Leu Pro Leu His Arg Ile Leu Thr Asp Ile Leu Glu
 385 390 395 400
 Val Arg Gln Lys Pro Ile Leu Met Thr
 405

<210> 2412

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2412

Met Trp Glu Leu Asp Lys Ala Ser Tyr Glu Ile Lys Lys Val Trp Tyr
 1 5 10 15
 Gly Arg Thr Ile Ile Arg Ser Ala Tyr Lys Leu Phe Tyr Glu Ala Ala
 20 25 30
 Gln Glu Leu Leu Asp Gly Asn Leu Ser Val Val Asp Asp Ile Pro Glu
 35 40 45
 Phe Lys Asp Leu Asn Glu Lys Ser Arg Gln Ala Lys Leu Glu Glu Leu
 50 55 60
 Val Trp Ala Ile Gly Lys Leu Thr Asp Ile Ala Arg His Val Arg Ala
 65 70 75 80
 Lys Arg Asp Gly Cys Gly Ala Leu Glu Leu Glu Gly Val Glu Val Cys
 85 90 95
 Val Gln Leu Asp Asp Lys Lys Asn Ile His Asp Leu Ile Pro Lys Gln
 100 105 110
 Pro Leu Glu Val His Glu Thr Val Ala Glu Cys Met Ile Leu Ala Asn
 115 120 125
 His Trp Val Ala Lys Lys Ile Trp Glu Ser Phe Pro His Gln Ala Leu

130	135	140
Leu Arg Gln His Pro Pro Pro His Gln Glu Phe Phe Ser Glu Leu Arg		
145	150	155
Glu Cys Ala Lys Ala Lys Gly Phe Phe Ile Asp Thr Arg Tyr Ser Ser		
165	170	175
Phe Glu Gly Ala Glu Glu Trp Ser Gly Met Leu Tyr Ile		
180	185	

<210> 2413

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2413

Met Thr Lys Arg Gly Gln Gly Ile Ala Trp Ala Val Ala Ser Glu Gly		
1	5	10
Ala Ser Pro Lys Pro Trp Trp Leu Ser Tyr Gly Val Val Pro Val Gly		
20	25	30
Val Gln Lys Thr Arg Val Glu Leu Trp Glu Pro Leu Pro Gln Phe Gln		
35	40	45
Arg Met Tyr Gly Asn Thr Trp Met Ser Arg Gln Lys Ser Ala Ala Trp		
50	55	60
Glu Glu Pro Thr Cys Arg Thr Ser Thr Met Ala Arg His Arg Gly Asn		
65	70	75
Val Gly Leu Glu Ser Pro His Arg Val Pro Thr Gly Ala Leu Pro Ser		
85	90	95
Gly Ala Val Lys Arg Gly Pro Leu Ser Ser Arg Pro Leu Lys Cys Arg		
100	105	110

Ser Thr Asp Ser Leu His Cys Ala Pro Gly Asn Ala Gly Thr Gln Gly
 115 120 125
 Gln Pro Met Lys Ala Ala Ala Gly Ala Ala Pro Cys Arg Ala Thr Gly
 130 135 140
 Val Glu Leu Pro Asn Ser Leu Lys Asp His Pro Phe Leu Val Ser Ser
 145 150 155 160
 Cys Leu Gly Cys Glu Thr Trp Ser Gln Gly Arg Ser Phe Gln Ser Phe
 165 170 175
 Asn Ile

<210> 2414

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2414

Met Val Asp Thr Val Leu Tyr Asp Asn Thr Gln Leu Gln Leu Lys Ala
 1 5 10 15
 Glu Ser Pro Trp Glu Ala Leu Asp Trp Gly Gln Lys Leu Trp Glu Val
 20 25 30
 Val His Ala Ala Val Pro Gly Tyr Met Gly Arg Gln Asn Glu Leu Thr
 35 40 45
 Ile Ser Pro Gly Leu Gly His His Asp Asp Tyr Thr Gln Asn His Ser
 50 55 60
 Phe Gln Lys Lys Thr Ser Gly Leu Leu Pro Pro Ser Pro Val Leu Asp
 65 70 75 80
 Ser Ser Lys Gln Tyr Gln Asn Ile Leu Lys Ser Gly Thr Leu Tyr Arg

	85	90	95
Leu Thr Val Gln Asn Asn Trp Lys Ala Phe Thr Phe Val Leu Ser Arg			
100	105	110	
Ala Tyr Leu Met Ala Phe Gln Pro Gly Lys Leu Asp Glu Asp Pro Leu			
115	120	125	
Leu Ser Tyr Asn Val Asp Val Cys Leu Ala Val Gln Met Asp Asn Leu			
130	135	140	
Asp Gly Cys Asp Ser Cys Phe Gln Val Ile Phe Pro Gln Asp Val Leu			
145	150	155	160
Arg Leu Arg Ala Glu Thr Arg Gln Arg Ala Gln Glu Trp Met Glu Ala			
165	170	175	
Leu Lys Ile Ala Ala Asn Val Ala Arg Ser Ser Glu Gln Asn Leu Gln			
180	185	190	
Val Thr Leu Arg Asn Lys Pro Lys Asp Gln Met Gly Gly His Glu Leu			
195	200	205	
Arg Lys Asn Lys Arg Gln Ser Val Thr Thr Ser Phe Leu Ser Ile Leu			
210	215	220	
Thr Thr Leu Ser Leu Glu Arg Gly Leu Thr Ala Gln Ser Phe Lys Cys			
225	230	235	240
Ala Gly Cys Gln Arg Ser Ile Gly Leu Ser Asn Gly Lys Ala Lys Val			
245	250	255	
Cys Asn Tyr Ser Gly Trp Tyr Tyr Cys Ser Ser Cys His Val Asp Asp			
260	265	270	
Ser Phe Leu Ile Pro Ala Arg Ile Val His Asn Trp Asp Thr Ser Lys			
275	280	285	
Tyr Lys Val Ser Lys Gln Ala Lys Glu Phe Leu Glu Tyr Val Tyr Glu			
290	295	300	
Glu Pro Leu Ile Asp Ile Gln Gln Glu Asn Ala Met Leu Tyr His His			
305	310	315	320

35	40	45
Gly Ser Gln Met Ala Leu Gly Val Leu Asn Val Glu Trp Leu Glu Glu		
50	55	60
Phe His Gln Ser Arg Gly Leu Thr Ala Trp Val Ser Ser Leu Ser Met		
65	70	75
Gly Ile Thr Leu Ile Val Gly Pro Phe Ile Gly Leu Phe Ile Asn Thr		
85	90	95
Cys Gly Cys Arg Gln Thr Ala Ile Ile Gly Gly Leu Val Asn Ser Leu		
100	105	110
Gly Trp Val Leu Ser Ala Tyr Ala Ala Asn Val His Tyr Leu Phe Ile		
115	120	125
Thr Phe Gly Val Ala Ala Gly Leu Gly Ser Gly Met Ala Tyr Leu Pro		
130	135	140
Ala Val Val Met Val Gly Arg Tyr Phe Gln Lys Arg Arg Ala Leu Ala		
145	150	155
Gln Gly Leu Ser Thr Thr Gly Thr Gly Phe Gly Thr Phe Leu Met Thr		
165	170	175
Val Leu Leu Lys Tyr Leu Cys Ala Glu Tyr Gly Trp Arg Asn Ala Met		
180	185	190
Leu Ile Gln Gly Ala Val Ser Leu Asn Leu Cys Val Cys Gly Ala Leu		
195	200	205
Met Arg Pro Leu Ser Pro Gly Lys Asn Pro Asn Asp Pro Gly Glu Lys		
210	215	220
Asp Val Arg Gly Leu Pro Ala His Ser Thr Glu Ser Val Lys Ser Thr		
225	230	235
Gly Gln Gln Gly Arg Thr Glu Glu Lys Asp Gly Gly Leu Gly Asn Glu		
245	250	255
Glu Thr Leu Cys Asp Leu Gln Ala Gln Glu Cys Pro Asp Gln Ala Gly		
260	265	270

His Arg Lys Asn Met Cys Ala Leu Arg Ile Leu Lys Thr Val Ser Trp
275 280 285

Leu Thr Met Arg Val Arg Lys Gly Phe Glu Asp Trp Tyr Ser Gly Tyr
290 295 300

Phe Gly Thr Ala Ser Leu Phe Thr Asn Arg Met Phe Val Ala Phe Ile
305 310 315 320

Phe Trp Ala Leu Phe Ala Tyr Ser Ser Phe Val Ile Pro Phe Ile His
325 330 335

Leu Pro Glu Ile Val Asn Leu Tyr Asn Leu Ser Glu Gln Asn Asp Val
340 345 350

Phe Pro Leu Thr Ser Ile Ile Ala Ile Val His Ile Phe Gly Lys Val
355 360 365

Ile Leu Gly Val Ile Ala Asp Leu Pro Cys Ile Ser Val Trp Asn Val
370 375 380

Phe Leu Leu Ala Asn Phe Thr Leu Val Leu Ser Ile Phe Ile Leu Pro
385 390 395 400

Leu Met His Thr Tyr Ala Gly Leu Ala Val Ile Cys Ala Leu Ile Gly
405 410 415

Phe Ser Ser Gly Tyr Phe Ser Leu Met Pro Val Val Thr Glu Asp Leu
420 425 430

Val Gly Ile Glu His Leu Ala Asn Ala Tyr Gly Ile Ile Ile Cys Ala
435 440 445

Asn Gly Ile Ser Ala Leu Leu Gly Pro Pro Phe Ala Gly Lys Leu Ser
450 455 460

Glu Val Leu Arg Ala Gln Ser Ala Cys Thr Tyr Gly Ala Leu Cys Tyr
465 470 475 480

Lys Val Pro Asp Lys
485

<210> 2416

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2416

Met Lys Ser Arg Ile Pro Val Val Leu Leu Ala Cys Gly Ser Phe Asn

1 5 10 15

Pro Ile Thr Asn Met His Leu Arg Met Phe Glu Val Ala Arg Asp His

20 25 30

Leu His Gln Thr Ala Val Pro Glu Leu Lys Leu Leu Cys Gly Ala Asp

35 40 45

Val Leu Lys Thr Phe Gln Thr Pro Asn Leu Trp Lys Asp Ala His Ile

50 55 60

Gln Glu Ile Val Glu Lys Phe Gly Leu Val Cys Val Gly Arg Val Gly

65 70 75 80

His Asp Pro Lys Gly Tyr Ile Ala Glu Ser Pro Ile Leu Arg Met His

85 90 95

Gln His Asn Ile His Leu Ala Lys Glu Pro Val Gln Asn Glu Ile Ser

100 105 110

Ala Thr Tyr Ile Arg Arg Ala Leu Gly Gln Gly Gln Ser Val Lys Tyr

115 120 125

Leu Ile Pro Asp Ala Val Ile Thr Tyr Ile Lys Asp His Gly Leu Tyr

130 135 140

Thr Lys Gly Ser Thr Trp Lys Gly Lys Ser Thr Gln Ser Thr Glu Gly

145 150 155 160

Lys Thr Ser

<210> 2417

<211> 308

<212> PRT

<213> Homo sapiens

<400> 2417

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Met Gly Asn Tyr Gln Glu Tyr Leu Lys Thr Leu Ala Ser Pro Leu Arg
  1             5             10             15
Glu Ile Asp Pro Asp Gln Pro Lys Arg Leu His Thr Phe Gly Asn Pro
          20             25             30
Phe Lys Gln Asp Lys Lys Gly Met Met Ile Asp Glu Ala Asp Glu Phe
          35             40             45
Val Ala Gly Pro Gln Asn Lys Val Lys Arg Pro Gly Glu Pro Asn Ser
          50             55             60
Pro Met Ser Ser Lys Arg Arg Arg Ser Met Ser Leu Leu Leu Arg Lys
          65             70             75             80
Pro Gln Thr Pro Pro Thr Val Thr Asn His Val Gly Gly Lys Gly Pro
          85             90             95
Pro Ser Ala Ser Trp Phe Pro Ser Tyr Pro Asn Leu Ile Lys Pro Thr
          100            105            110
Leu Val His Thr Asp Ala Thr Ile Ile His Asp Gly His Glu Glu Lys
          115            120            125
Met Glu Asn Gly Gln Ile Thr Pro Asp Gly Phe Leu Ser Lys Ser Ala
          130            135            140
Pro Ser Glu Leu Ile Asn Met Thr Gly Asp Leu Met Pro Pro Asn Gln
          145            150            155            160
Val Asp Ser Leu Ser Asp Asp Phe Thr Ser Leu Ser Lys Asp Gly Leu

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165 170 175
Ile Gln Lys Pro Gly Ser Asn Ala Phe Val Gly Gly Ala Lys Asn Cys
180 185 190
Ser Leu Ser Val Asp Asp Gln Lys Asp Pro Val Ala Ser Thr Leu Gly
195 200 205
Ala Met Pro Asn Thr Leu Gln Ile Thr Pro Ala Met Ala Gln Gly Ile
210 215 220
Asn Ala Asp Ile Lys His Gln Leu Met Lys Glu Val Arg Lys Phe Gly
225 230 235 240
Arg Lys Tyr Glu Arg Ile Phe Ile Leu Leu Glu Glu Val Gln Gly Pro
245 250 255
Leu Glu Met Lys Lys Gln Phe Val Glu Phe Thr Ile Lys Glu Ala Ala
260 265 270
Arg Phe Lys Arg Arg Val Leu Ile Gln Tyr Leu Glu Lys Val Leu Glu
275 280 285
Lys Ile Asn Ser His His Leu His Asn Asn Ile Ser His Ile Asn Ser
290 295 300
Arg Ser Ser Cys
305

<210> 2418

<211> 529

<212> PRT

<213> Homo sapiens

<400> 2418

Met Glu Leu Met Ile Gln Glu Lys Ser Phe Gly Asn Ser Leu Leu Leu

1

5

10

15

Asn Ser Ala Met Gln Pro Asp Leu Thr Val Ser Arg Thr Tyr Ser Gly			
20	25	30	
Pro Ile Cys Leu Gln Asp Pro Leu Asp Lys Glu Leu Met Thr Glu Ser			
35	40	45	
Ser Leu Phe Asn Pro Leu Ser Asp Ile Lys Val Lys Val Gln Ser Ser			
50	55	60	
Phe Met Val Ser Leu Gly Val Ser Glu Arg Ala Glu Tyr His Gly Lys			
65	70	75	80
Asn His Ser Arg Thr Phe Pro His Gly Asn Asn His Ser Phe Ser Thr			
85	90	95	
Met His Pro Arg Asn Lys Met Pro Tyr Ile Gln Asn Leu Ser Ser Leu			
100	105	110	
Pro Thr Arg Thr Glu Leu Arg Thr Thr Gly Val Phe Gly His Leu Gly			
115	120	125	
Gly Arg Leu Val Met Pro Asn Lys Gly Val Ser Leu Leu Ile Pro His			
130	135	140	
Gly Ala Ile Pro Glu Glu Asn Ser Trp Glu Ile Tyr Met Ser Ile Asn			
145	150	155	160
Gln Gly Glu Pro Ser Leu Gln Ser Asp Gly Ser Glu Val Leu Leu Ser			
165	170	175	
Pro Glu Val Thr Cys Gly Pro Pro Asp Met Ile Val Thr Thr Pro Phe			
180	185	190	
Ala Leu Thr Ile Pro His Cys Ala Asp Val Ser Ser Glu His Trp Asn			
195	200	205	
Ile His Leu Lys Lys Arg Thr Gln Gln Gly Lys Trp Glu Glu Val Met			
210	215	220	
Ser Val Glu Asp Glu Ser Thr Ser Cys Tyr Cys Leu Leu Asp Pro Phe			
225	230	235	240
Ala Cys His Val Leu Leu Asp Ser Phe Gly Thr Tyr Ala Leu Thr Gly			

	245	250	255
Glu Pro Ile Thr Asp Cys Ala Val Lys Gln Leu Lys Val Ala Val Phe			
	260	265	270
Gly Cys Met Ser Cys Asn Ser Leu Asp Tyr Asn Leu Arg Val Tyr Cys			
	275	280	285
Val Asp Asn Thr Pro Cys Ala Phe Gln Glu Val Val Ser Asp Glu Arg			
	290	295	300
His Gln Gly Gly Gln Leu Leu Glu Glu Pro Lys Leu Leu His Phe Lys			
305	310	315	320
Gly Asn Thr Phe Ser Leu Gln Ile Ser Val Leu Asp Ile Pro Pro Phe			
	325	330	335
Leu Trp Arg Ile Lys Pro Phe Thr Ala Cys Gln Glu Val Pro Phe Ser			
	340	345	350
Arg Val Trp Cys Ser Asn Arg Gln Pro Leu His Cys Ala Phe Ser Leu			
	355	360	365
Glu Arg Tyr Thr Pro Thr Thr Thr Gln Leu Ser Cys Lys Ile Cys Ile			
	370	375	380
Arg Gln Leu Lys Gly His Glu Gln Ile Leu Gln Val Gln Thr Ser Ile			
385	390	395	400
Leu Glu Ser Glu Arg Glu Thr Ile Thr Phe Phe Ala Gln Glu Asp Ser			
	405	410	415
Thr Phe Pro Ala Gln Thr Gly Pro Lys Ala Phe Lys Ile Pro Tyr Ser			
	420	425	430
Ile Arg Gln Arg Ile Cys Ala Thr Phe Asp Thr Pro Asn Ala Lys Gly			
	435	440	445
Lys Asp Trp Gln Met Leu Ala Gln Lys Asn Ser Ile Asn Arg Asn Leu			
	450	455	460
Ser Tyr Phe Ala Thr Gln Ser Ser Pro Ser Ala Val Ile Leu Asn Leu			
465	470	475	480

Trp Glu Ala Arg His Gln His Asp Gly Asp Leu Asp Ser Leu Ala Cys
 485 490 495
 Ala Leu Glu Glu Ile Gly Arg Thr His Thr Lys Leu Ser Asn Ile Ser
 500 505 510
 Glu Ser Gln Leu Asp Glu Ala Asp Phe Asn Tyr Ser Arg Gln Asn Gly
 515 520 525
 Leu

<210> 2419

<211> 241

<212> PRT

<213> Homo sapiens

<400> 2419

Met Ala Gln Glu Lys Met Glu Leu Asp Leu Glu Pro Asp Thr Ser Tyr
 1 5 10 15
 Gly Gly Thr Leu Arg Arg Ser Ser Ser Ala Pro Leu Ile His Gly Leu
 20 25 30
 Ser Asp Leu Ser Gln Val Phe Gln Pro Tyr Thr Leu Arg Thr Arg Arg
 35 40 45
 Asn Ser Thr Thr Ile Met Ser Arg His Ser Leu Leu Leu Ser Ser Ser
 50 55 60
 Pro Asn Arg Ile Pro Ser Ser Arg Leu His Gln Ile Lys Arg Glu Glu
 65 70 75 80
 Gly Leu Asp Met Val Asn Arg Glu Thr Ala His Glu Arg Glu Met Gln
 85 90 95
 Thr Ala Met Gln Ile Ser Gln Ser Trp Asp Glu Ser Leu Ser Leu Ser

100	105	110
Asp Ser Asp Phe Asp Lys Pro Glu Lys Leu Tyr Ser Pro Lys Arg Ile		
115	120	125
Asp Phe Thr Pro Val Ser Pro Ala Pro Ser Pro Thr Arg Gly Phe Gly		
130	135	140
Lys Met Phe Val Ser Ser Ser Gly Leu Pro Pro Ser Pro Val Pro Ser		
145	150	155
Pro Arg Arg Phe Ser Arg Arg Ser Gln Ser Pro Val Lys Cys Ile Arg		
165	170	175
Pro Ser Val Leu Gly Pro Leu Lys Arg Lys Gly Glu Met Glu Thr Glu		
180	185	190
Ser Gln Pro Lys Arg Leu Phe Gln Gly Thr Thr Asn Met Leu Ser Pro		
195	200	205
Asp Ala Ala Gln Leu Ser Asp Leu Ser Ser Trp Trp Cys Tyr Gln Gly		
210	215	220
Glu Glu Ile Pro Ala Leu Thr Arg Cys Val Glu His Leu Gln Met Asn		
225	230	235
Glu		240

<210> 2420

<211> 622

<212> PRT

<213> Homo sapiens

<400> 2420

Met Cys Gly Leu Gln Phe Ser Leu Pro Cys Leu Arg Leu Phe Leu Val

1

5

10

15

出証特 2 0 0 4 - 3 0 5 9 6 6 0

245	250	255
Leu Leu Leu Lys Asn Ser Arg Ile Arg Asn Val Thr Arg Asp Gly Phe		
260	265	270
Ser Gly Ile Asn Asn Leu Lys His Leu Ile Leu Ser His Asn Asp Leu		
275	280	285
Glu Asn Leu Asn Ser Asp Thr Phe Ser Leu Leu Lys Asn Leu Ile Tyr		
290	295	300
Leu Lys Leu Asp Arg Asn Arg Ile Ile Ser Ile Asp Asn Asp Thr Phe		
305	310	315
Glu Asn Met Gly Ala Ser Leu Lys Ile Leu Asn Leu Ser Phe Asn Asn		
325	330	335
Leu Thr Ala Leu His Pro Arg Val Leu Lys Pro Leu Ser Ser Leu Ile		
340	345	350
His Leu Gln Ala Asn Ser Asn Pro Trp Glu Cys Asn Cys Lys Leu Leu		
355	360	365
Gly Leu Arg Asp Trp Leu Ala Ser Ser Ala Ile Thr Leu Asn Ile Tyr		
370	375	380
Cys Gln Asn Pro Pro Ser Met Arg Gly Arg Ala Leu Arg Tyr Ile Asn		
385	390	395
Ile Thr Asn Cys Val Thr Ser Ser Ile Asn Val Ser Arg Ala Trp Ala		
405	410	415
Val Val Lys Ser Pro His Ile His His Lys Thr Thr Ala Leu Met Met		
420	425	430
Ala Trp His Lys Val Thr Thr Asn Gly Ser Pro Leu Glu Asn Thr Glu		
435	440	445
Thr Glu Asn Ile Thr Phe Trp Glu Arg Ile Pro Thr Ser Pro Ala Gly		
450	455	460
Arg Phe Phe Gln Glu Asn Ala Phe Gly Asn Pro Leu Glu Thr Thr Ala		
465	470	475
		480

Val	Leu	Pro	Val	Gln	Ile	Gln	Leu	Thr	Thr	Ser	Val	Thr	Leu	Asn	Leu
				485				490						495	
Glu	Lys	Asn	Ser	Ala	Leu	Pro	Asn	Asp	Ala	Ala	Ser	Met	Ser	Gly	Lys
				500				505						510	
Thr	Ser	Leu	Ile	Cys	Thr	Gln	Glu	Val	Glu	Lys	Leu	Asn	Glu	Ala	Phe
				515				520						525	
Asp	Ile	Leu	Leu	Ala	Phe	Phe	Ile	Leu	Ala	Cys	Val	Leu	Ile	Ile	Phe
				530				535						540	
Leu	Ile	Tyr	Lys	Val	Val	Gln	Phe	Lys	Gln	Lys	Leu	Lys	Ala	Ser	Glu
545						550					555				560
Asn	Ser	Arg	Glu	Asn	Arg	Leu	Glu	Tyr	Tyr	Ser	Phe	Tyr	Gln	Ser	Ala
						565					570				575
Arg	Tyr	Asn	Val	Thr	Ala	Ser	Ile	Cys	Asn	Thr	Ser	Pro	Asn	Ser	Leu
						580					585				590
Glu	Ser	Pro	Gly	Leu	Glu	Gln	Ile	Arg	Leu	His	Lys	Gln	Ile	Val	Pro
				595				600						605	
Glu	Asn	Glu	Ala	Gln	Ala	Ile	Leu	Phe	Glu	His	Ser	Ala	Leu		
				610				615						620	

<210> 2421

<211> 407

<212> PRT

<213> Homo sapiens

<400> 2421

Met	Thr	Ser	Gln	Arg	Ser	Pro	Leu	Ala	Pro	Leu	Leu	Leu	Ser	Leu	
1					5					10				15	
His	Gly	Val	Ala	Ala	Ser	Leu	Glu	Val	Ser	Glu	Ser	Pro	Gly	Ser	Ile

20	25	30
Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr		
35	40	45
Ser Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu		
50	55	60
Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln		
65	70	75
Met Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly		
85	90	95
Thr Met Pro Ala Thr Asn Val Ser Ile Tyr Ile Asn Asn Thr Gln Leu		
100	105	110
Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile		
115	120	125
Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro		
130	135	140
Ser Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp		
145	150	155
Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr		
165	170	175
Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr		
180	185	190
Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu		
195	200	205
Ser Ser Ala Gln Pro Arg Asn Ile Gly Leu Ile Ala Gly Ala Ile Gly		
210	215	220
Thr Gly Ala Val Ile Ile Ile Phe Cys Ile Ala Leu Ile Leu Gly Ala		
225	230	235
Phe Phe Tyr Trp Arg Ser Lys Asn Lys Glu Glu Glu Glu Glu Glu Ile		
245	250	255

Pro Asn Glu Ile Arg Glu Asp Asp Leu Pro Pro Lys Cys Ser Ser Ala
 260 265 270
 Lys Ala Phe His Thr Glu Ile Ser Ser Ser Asp Asn Asn Thr Leu Thr
 275 280 285
 Ser Ser Asn Ala Tyr Asn Ser Arg Tyr Trp Ser Asn Asn Pro Lys Val
 290 295 300
 His Arg Asn Thr Glu Ser Val Ser His Phe Ser Asp Leu Gly Gln Ser
 305 310 315 320
 Phe Ser Phe His Ser Gly Asn Ala Asn Ile Pro Ser Ile Tyr Ala Asn
 325 330 335
 Gly Thr His Leu Val Pro Gly Gln His Lys Thr Leu Val Val Thr Ala
 340 345 350
 Asn Arg Gly Ser Ser Pro Gln Val Met Ser Arg Ser Asn Gly Ser Val
 355 360 365
 Ser Arg Lys Pro Arg Pro Pro His Thr His Ser Tyr Thr Ile Ser His
 370 375 380
 Ala Thr Leu Glu Arg Ile Gly Ala Val Pro Val Met Val Pro Ala Gln
 385 390 395 400
 Ser Arg Ala Gly Ser Leu Val
 405

<210> 2422

<211> 209

<212> PRT

<213> Homo sapiens

<400> 2422

Met Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe

1	5	10	15
Cys Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys			
20	25	30	
Lys Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val			
35	40	45	
Pro Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe			
50	55	60	
Arg Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala			
65	70	75	80
Val Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys			
85	90	95	
Phe Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg			
100	105	110	
Pro Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr			
115	120	125	
Pro Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln			
130	135	140	
Gly Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr			
145	150	155	160
Pro Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro			
165	170	175	
Ala Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala			
180	185	190	
Ser Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala			
195	200	205	
Leu			

<210> 2423

<211> 590

<212> PRT

<213> Homo sapiens

<400> 2423

Met Gly Phe His Leu Ile Thr Gln Leu Lys Gly Met Ser Val Val Leu

1 5 10 15

Val Leu Leu Pro Thr Leu Leu Leu Val Met Leu Thr Gly Ala Gln Arg

20 25 30

Ala Cys Pro Lys Asn Cys Arg Cys Asp Gly Lys Ile Val Tyr Cys Glu

35 40 45

Ser His Ala Phe Ala Asp Ile Pro Glu Asn Ile Ser Gly Gly Ser Gln

50 55 60

Gly Leu Ser Leu Arg Phe Asn Ser Ile Gln Lys Leu Lys Ser Asn Gln

65 70 75 80

Phe Ala Gly Leu Asn Gln Leu Ile Trp Leu Tyr Leu Asp His Asn Tyr

85 90 95

Ile Ser Ser Val Asp Glu Asp Ala Phe Gln Gly Ile Arg Arg Leu Lys

100 105 110

Glu Leu Ile Leu Ser Ser Asn Lys Ile Thr Tyr Leu His Asn Lys Thr

115 120 125

Phe His Pro Val Pro Asn Leu Arg Asn Leu Asp Leu Ser Tyr Asn Lys

130 135 140

Leu Gln Thr Leu Gln Ser Glu Gln Phe Lys Gly Leu Arg Lys Leu Ile

145 150 155 160

Ile Leu His Leu Arg Ser Asn Ser Leu Lys Thr Val Pro Ile Arg Val

165 170 175

Phe Gln Asp Cys Arg Asn Leu Asp Phe Leu Asp Leu Gly Tyr Asn Arg

180	185	190
Leu Arg Ser Leu Ser Arg Asn Ala Phe Ala Gly Leu Leu Lys Leu Lys		
195	200	205
Glu Leu His Leu Glu His Asn Gln Phe Ser Lys Ile Asn Phe Ala His		
210	215	220
Phe Pro Arg Leu Phe Asn Leu Arg Ser Ile Tyr Leu Gln Trp Asn Arg		
225	230	235
Ile Arg Ser Ile Ser Gln Gly Leu Thr Trp Thr Trp Ser Ser Leu His		
245	250	255
Asn Leu Asp Leu Ser Gly Asn Asp Ile Gln Gly Ile Glu Pro Gly Thr		
260	265	270
Phe Lys Cys Leu Pro Asn Leu Gln Lys Leu Asn Leu Asp Ser Asn Lys		
275	280	285
Leu Thr Asn Ile Ser Gln Glu Thr Val Asn Ala Trp Ile Ser Leu Ile		
290	295	300
Ser Ile Thr Leu Ser Gly Asn Met Trp Glu Cys Ser Arg Ser Ile Cys		
305	310	315
Pro Leu Phe Tyr Trp Leu Lys Asn Phe Lys Gly Asn Lys Glu Ser Thr		
325	330	335
Met Ile Cys Ala Gly Pro Lys His Ile Gln Gly Glu Lys Val Ser Asp		
340	345	350
Ala Val Glu Thr Tyr Asn Ile Cys Ser Glu Val Gln Val Val Asn Thr		
355	360	365
Glu Arg Ser His Leu Val Pro Gln Thr Pro Gln Lys Pro Leu Ile Ile		
370	375	380
Pro Arg Pro Thr Ile Phe Lys Pro Asp Val Thr Gln Ser Thr Phe Glu		
385	390	395
Thr Pro Ser Pro Ser Pro Gly Phe Gln Ile Pro Gly Ala Glu Gln Glu		
405	410	415

Tyr Glu His Val Ser Phe His Lys Ile Ile Ala Gly Ser Val Ala Leu
420 425 430
Phe Leu Ser Val Ala Met Ile Leu Leu Val Ile Tyr Val Ser Trp Lys
435 440 445
Arg Tyr Pro Ala Ser Met Lys Gln Leu Gln Gln His Ser Leu Met Lys
450 455 460
Arg Arg Arg Lys Lys Ala Arg Glu Ser Glu Arg Gln Met Asn Ser Pro
465 470 475 480
Leu Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Thr Asn Ser Glu Thr Met
485 490 495
Asp Ile Ser Val Asn Gly Ser Gly Pro Cys Thr Tyr Thr Ile Ser Gly
500 505 510
Ser Arg Glu Cys Glu Met Pro His His Met Lys Pro Leu Pro Tyr Tyr
515 520 525
Ser Tyr Gly Gln Pro Val Ile Gly Tyr Cys Gln Ala His Gln Pro Leu
530 535 540
His Val Thr Lys Gly Tyr Glu Thr Val Ser Pro Glu Gln Asp Glu Ser
545 550 555 560
Pro Gly Leu Glu Leu Gly Arg Asp His Ser Phe Ile Ala Thr Ile Ala
565 570 575
Arg Ser Ala Ala Pro Ala Ile Tyr Leu Glu Arg Ile Ala Asn
580 585 590

<210> 2424

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2424

Met	Ile	Arg	Ile	Ile	Asn	Ala	Phe	Ser	Leu	Pro	Thr	Tyr	Leu	Ser	Ser
1				5						10				15	
His	Asp	Asn	Leu	Lys	Ile	Ser	Leu	Val	Ala	Phe	Pro	Leu	Lys	Pro	Thr
			20					25					30		
Phe	Pro	Val	Gly	Leu	Asn	Ser	Leu	Phe	Ser	Leu	Ile	Trp	Cys	Phe	Pro
			35					40					45		
Ser	His	Leu	Phe	Phe	Lys	Val	Pro	Phe	Leu	Gln	Thr	Leu	Lys	Ser	Thr
	50					55					60				
Ser	Leu	Thr	Lys	Phe	Leu	Phe	Ile	Ile	Lys	His	Phe	Asp	Ile	Leu	Ser
	65					70					75			80	
Leu	Asn	Phe	Ala	Phe	Ala	Glu	Ser	Leu	Pro	Phe	Gly	Val	Leu	Ser	Met
					85					90				95	
Lys	Tyr	Ser	Ala	Asp	Phe	Tyr	Leu	Gly	Phe	Lys	Trp	Gly	Ser	Ile	Lys
			100						105					110	
Asn	Thr	Ser	His	Phe	Cys	Asn	Asn	Gly	Ile	Thr	Val	Ser	Ser	Cys	Met
			115						120					125	
Gln	Ala	Ile	Lys	Leu	Phe	Arg	Val	Trp	Phe	Tyr	Thr	Glu	Asn	Leu	Ile
			130						135					140	

<210> 2425

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2425

Met	Lys	Val	Ser	Glu	Thr	Tyr	Thr	Asp	Thr	Asn	Ser	Thr	Ala	Gly	Gln
1					5					10				15	

His Ala Gly Phe Ser Val Gln Arg Arg Tyr Ile Asp Gln Gln Ala Val
 20 25 30
 Arg Cys Gln Ile Arg Leu Leu Arg Glu Glu Thr Pro Leu Gln Gly Val
 35 40 45
 Trp Lys Glu His Val Trp Lys Gly Ala Gly His Met Glu Pro Arg Asn
 50 55 60
 Asn Cys Ser Pro Ser Val His Thr Ala Gln Arg Glu Arg Gly Glu Glu
 65 70 75 80
 Phe Gln Ala Arg Ala Thr Glu Ala Leu Glu Ala Val Leu Arg Arg Glu
 85 90 95
 Thr Ser Ser Arg
 100

<210> 2426

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2426

Met Ala Glu Arg Gly Gln His Glu Ala Gln Ala Met Ala Ser Glu Gly
 1 5 10 15
 Glu Ser Leu Lys Pro Trp Gln Leu Pro Cys Asp Val Glu His Val Gly
 20 25 30
 Ala Gln Lys Ser Arg Asn Gly Val Trp Glu Pro Leu Ser Arg Phe Gln
 35 40 45
 Lys Met Tyr Gly Asn Ala Trp Met Pro Arg Gln Lys Phe Ala Ala Gly
 50 55 60
 Ala Gly Leu Ser Trp Arg Thr Ser Ala Arg Ala Val Gln Lys Gly Asn

65	70	75	80
Val Gly Leu Glu Pro Pro His Arg Val Pro Thr Gly Thr Pro Pro Ser			
	85	90	95
Gly Ala Val Arg Arg Gly Pro Leu Ser Ser Arg Pro Gln Asn Gly Arg			
	100	105	110
Ser Thr Tyr Ser Leu Tyr Gln Val Pro Gly Lys Ala Ala Asp Thr Gln			
	115	120	125
His Gln Pro Met Lys Ala Ala Arg Met Glu Ala Val Pro			
	130	135	140

<210> 2427

<211> 292

<212> PRT

<213> Homo sapiens

<400> 2427

Met Thr Glu Leu Leu Asn Arg Val Asp Lys Lys Ala Ala Pro Gln Thr			
1	5	10	15
Glu Ser Gly Ser Ser Asn Ala Ser Cys Arg Asn Val Leu Lys Gly Ser			
	20	25	30
Ser Gln Gly Ser Cys Leu Ile Gly Ser Ser Ile Ser Thr Gln Gly Asn			
	35	40	45
His Lys Lys Asn Met Lys Ile Lys Ala Asp Met Glu Val Pro Lys Asp			
	50	55	60
Ser Leu Val Lys Glu Ala Asn Glu Asn Leu Gln Glu Asp Glu Asp Asp			
	65	70	75
Ala Val Ala Asp Ser Val Phe Gln Ser His Ile Ile Glu Ser Asn Cys			
	85	90	95

Gln Met Arg Thr Leu Asp Ser Gly Ile Gly Thr Phe Pro Leu Pro Asp
 100 105 110
 Ser Gly Asn Arg Ser Thr Gly Arg Tyr Leu Cys Gln Pro Asp Ser Pro
 115 120 125
 Glu Asp Ala Glu Pro Leu Leu Pro Leu Gln Ser Ala Leu Ser Ala Val
 130 135 140
 Ser Ser Met Arg Ala Gln Thr Leu Glu Arg Glu Val Pro Ser Ser Thr
 145 150 155 160
 Asp Gly Gln Arg Pro Ala Asp Ser Ala Ile Val His Ser Thr Ser Asp
 165 170 175
 Pro Ile Met Thr Ala Arg Gly Met Arg Pro Leu Gln Ser Arg Leu Pro
 180 185 190
 Lys Pro Ala Ser Ser Gly Lys Val Ser Ser Gln Lys Gln Asn Glu Ala
 195 200 205
 Glu Pro Arg Pro Gln Thr Cys Ser Ser Phe Gly Tyr Ala Glu Asp Pro
 210 215 220
 Met Ala Ser Gln Pro Leu Pro Asp Trp Gly Ser Glu Val Ala Ala Thr
 225 230 235 240
 Gly Thr Gln Asp Lys Ala Pro Arg Met Cys Thr Tyr Ser Ala Ser Gly
 245 250 255
 Gly Ser Asn Ser Asp Ser Asp Leu Asp Tyr Gly Asp Asn Gly Phe Gly
 260 265 270
 Ala Gly Arg Gly Gln Leu Val Lys Ala Leu Lys Ser Ala Ala Pro Glu
 275 280 285
 Ile Glu Thr Thr
 290

<210> 2428

<211> 599

<212> PRT

<213> Homo sapiens

<400> 2428

Met Asp Gly Thr Asp Cys Asp Leu Gly Lys Trp Cys Lys Ala Gly Glu

1 5 10 15

Cys Thr Ser Arg Thr Ser Ala Pro Glu His Leu Ala Gly Glu Trp Ser

20 25 30

Leu Trp Ser Pro Cys Ser Arg Thr Cys Ser Ala Gly Ile Ser Ser Arg

35 40 45

Glu Arg Lys Cys Pro Gly Leu Asp Ser Glu Ala Arg Asp Cys Asn Gly

50 55 60

Pro Arg Lys Gln Tyr Arg Ile Cys Glu Asn Pro Pro Cys Pro Ala Gly

65 70 75 80

Leu Pro Gly Phe Arg Asp Trp Gln Cys Gln Ala Tyr Ser Val Arg Thr

85 90 95

Ser Ser Pro Lys His Ile Leu Gln Trp Gln Ala Val Leu Asp Glu Glu

100 105 110

Lys Pro Cys Ala Leu Phe Cys Ser Pro Val Gly Lys Glu Gln Pro Ile

115 120 125

Leu Leu Ser Glu Lys Val Met Asp Gly Thr Ser Cys Gly Tyr Gln Gly

130 135 140

Leu Asp Ile Cys Ala Asn Gly Arg Cys Gln Lys Val Gly Cys Asp Gly

145 150 155 160

Leu Leu Gly Ser Leu Ala Arg Glu Asp His Cys Gly Val Cys Asn Gly

165 170 175

Asn Gly Lys Ser Cys Lys Ile Ile Lys Gly Asp Phe Asn His Thr Arg

180 185 190

Gly Ala Gly Tyr Val Glu Val Leu Val Ile Pro Ala Gly Ala Arg Arg
195 200 205

Ile Lys Val Val Glu Glu Lys Pro Ala His Ser Tyr Leu Ala Leu Arg
210 215 220

Asp Ala Gly Lys Gln Ser Ile Asn Ser Asp Trp Lys Ile Glu His Ser
225 230 235 240

Gly Ala Phe Asn Leu Ala Gly Thr Thr Val His Tyr Val Arg Arg Gly
245 250 255

Leu Trp Glu Lys Ile Ser Ala Lys Gly Pro Thr Thr Ala Pro Leu His
260 265 270

Leu Leu Val Leu Leu Phe Gln Asp Gln Asn Tyr Gly Leu His Tyr Glu
275 280 285

Tyr Thr Ile Pro Ser Asp Pro Leu Pro Glu Asn Gln Ser Ser Lys Ala
290 295 300

Pro Glu Pro Leu Phe Met Trp Thr His Thr Ser Trp Glu Asp Cys Asp
305 310 315 320

Ala Thr Cys Gly Gly Gly Glu Arg Lys Thr Thr Val Ser Cys Thr Lys
325 330 335

Ile Met Ser Lys Asn Ile Ser Ile Val Asp Asn Glu Lys Cys Lys Tyr
340 345 350

Leu Thr Lys Pro Glu Pro Gln Ile Arg Lys Cys Asn Glu Gln Pro Cys
355 360 365

Gln Thr Arg Trp Met Met Thr Glu Trp Thr Pro Cys Ser Arg Thr Cys
370 375 380

Gly Lys Gly Met Gln Ser Arg Gln Val Ala Cys Thr Gln Gln Leu Ser
385 390 395 400

Asn Gly Thr Leu Ile Arg Ala Arg Glu Arg Asp Cys Ile Gly Pro Lys
405 410 415

Pro Ala Ser Ala Gln Arg Cys Glu Gly Gln Asp Cys Met Thr Val Trp

420 425 430
 Glu Ala Gly Val Trp Ser Glu Cys Ser Val Lys Cys Gly Lys Gly Ile
 435 440 445
 Arg His Arg Thr Val Arg Cys Thr Asn Pro Arg Arg Lys Cys Val Leu
 450 455 460
 Ser Thr Arg Pro Arg Glu Ala Glu Asp Cys Glu Asp Tyr Ser Lys Cys
 465 470 475 480
 Tyr Val Trp Arg Met Gly Asp Trp Ser Lys Cys Ser Ile Thr Cys Gly
 485 490 495
 Lys Gly Met Gln Ser Arg Val Ile Gln Cys Met His Lys Ile Thr Gly
 500 505 510
 Arg His Gly Asn Gly Cys Phe Ser Ser Glu Lys Pro Ala Ala Tyr Arg
 515 520 525
 Pro Cys His Leu Gln Pro Cys Asn Glu Lys Ile Asn Val Asn Thr Ile
 530 535 540
 Thr Ser Pro Arg Leu Ala Ala Leu Thr Phe Lys Cys Leu Gly Asp Gln
 545 550 555 560
 Trp Pro Val Tyr Cys Arg Val Ile Arg Glu Lys Asn Leu Cys Gln Asp
 565 570 575
 Met Arg Trp Tyr Gln Arg Cys Cys Glu Thr Cys Arg Asp Phe Tyr Ala
 580 585 590
 Gln Lys Leu Gln Gln Lys Ser
 595

<210> 2429

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2429

Met Gln Arg Arg Thr Thr Met Arg Tyr His Leu Met Pro Val Arg Met
 1 5 10 15
 Val Ile Ile Lys Lys Ser Lys Asn Asn Arg Cys Trp Arg Gly Cys Gly
 20 25 30
 Glu Val Gly Thr Leu Leu His Cys Trp Trp Glu Cys Lys Leu Val Gln
 35 40 45
 Pro Leu Trp Lys Cys Val Trp Leu Phe Leu Lys Asp Leu Glu Leu Glu
 50 55 60
 Ile Leu Phe Val Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Glu
 65 70 75 80
 Tyr Lys Pro Phe Tyr Tyr Lys Asp Thr Cys Thr Phe Leu Phe Ile Ala
 85 90 95
 Ala Leu Phe Thr Ile Ala Lys Thr Gln
 100 105

<210> 2430

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2430

Met Lys Ser Lys Glu Arg His Pro Cys Ser Pro Ser Asp His Arg Arg
 1 5 10 15
 Ser Arg Ser Pro Ser Gln Arg Arg Thr Arg Ser Arg Ser Ser Ser Trp
 20 25 30
 Gly Arg Asn Arg Arg Arg Ser Asp Ser Leu Lys Glu Ser Arg His Arg

35 40 45
 Arg Phe Ser Tyr Ser Gln Ser Lys Ser Arg Ser Lys Ser Leu Pro Arg
 50 55 60
 Arg Ser Thr Ser Ala Arg Gln Ser Arg Thr Pro Arg Arg Asn Phe Gly
 65 70 75 80
 Ser Arg Gly Arg Ser Arg Ser Lys Ser Leu Gln Lys Arg Ser Lys Ser
 85 90 95
 Ile Gly Lys Ser Gln Ser Ser Ser Pro Gln Lys Gln Thr Ser Ser Gly
 100 105 110
 Thr Lys Ser Arg Ser His Gly Arg His Ser Asp Ser Ile Ala Arg Ser
 115 120 125
 Pro Cys Lys Ser Pro Lys Gly Tyr Thr Asn Ser Glu Thr Lys Val Gln
 130 135 140
 Thr Ala Lys His Ser His Phe Arg Ser His Ser Arg Ser Arg Ser Tyr
 145 150 155 160
 Arg His Lys Asn Ser Trp
 165

<210> 2431

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2431

Met Arg Glu Glu Met Ser Leu Gly Cys Gln Glu Ala Phe Glu Ile Phe
 1 5 10 15
 Lys Arg Asp His Ala Asp Ser Val Thr Ile Asp Asp Asn Lys Gln Ile
 20 25 30

Leu Lys Gln Arg Phe Ser Glu Ala Lys Ala Leu Gly Glu Ser Ile Asn
 35 40 45
 Glu Ala Arg Ser Lys Ile Gly His Leu Lys Glu Glu Ile Thr Gln Arg
 50 55 60
 His Ile Gln Gln Val Ala Leu Gly Ile Ser Glu Asn Met Ala Val Pro
 65 70 75 80
 Leu Met Pro Asp Gln Gln Glu Glu Lys Leu Arg Ser Gln Leu Glu Glu
 85 90 95
 Glu Lys Arg Arg Tyr Lys Thr Met Phe Thr Arg Leu Lys Ala Leu Lys
 100 105 110
 Val Glu Ile Glu His Leu Gln Leu Leu Met Asp Lys Ala Lys Val Lys
 115 120 125
 Leu Gln Lys Glu Phe Glu Val Trp Trp Ala Glu Glu Ala Thr Asn Leu
 130 135 140
 Gln Val Asn Ser Pro Ala Val Asn Ser Leu Asp His Thr Lys Ser Lys
 145 150 155 160
 Ile Lys Ala Leu Ala Asp Ser Met Ser Val Met
 165 170

<210> 2432

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2432

Met Pro Thr Ser Ser Phe Tyr Ala Cys Leu Thr Leu Phe Leu His Thr
 1 5 10 15
 Gly Pro Arg Cys His Leu Gln Glu Ala Phe Ser His Pro Ile Leu Val

	20		25		30
Arg Ser Gly Cys His Asn Lys Ile Ser Ser Ile Gly Tyr Leu Arg Asn					
35		40		45	
Asn Arg Asn Val Phe Leu Thr Val Leu Lys Thr Gly Gln Ser Trp Val					
50		55		60	
Arg Val Leu Val Glu Ser Val Ser Gly Glu Gly Leu Arg Cys Leu Ser					
65		70		75	80
Thr Val Ser Pro Arg Gly Gly Gly Val Arg Gly Leu Pro Gln Gly Ser					
	85		90		95
Phe Ile Arg Thr Arg Ile Pro Phe Met Arg Ala Asn His Pro Met Ala					
100		105		110	

<210> 2433

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2433

Met Asn Cys Asn Phe Gln Lys His Ala Pro Leu Glu Glu Phe Tyr Ser			
1	5	10	15
Phe Gly Glu Ser Met Cys Glu Tyr Phe Gly His Arg Gly Ser Lys Gln			
20	25	30	
Leu His Arg Gly Lys Pro Val Arg Leu Gly Tyr Lys Ile Trp Cys Gly			
35	40	45	
Thr Thr Ser Arg Gly Tyr Leu Val Trp Phe Glu Pro Ser Gln Gly Thr			
50	55	60	
Leu Phe Thr Lys Pro Asp Arg Ser Leu Asp Leu Gly Gly Ser Met Val			
65	70	75	80

Ile Lys Phe Val Asp Ala Leu Gln Glu Arg Gly Phe Leu Pro Tyr His			
	85	90	95
Ile Phe Phe Asp Lys Val Phe Thr Ser Val Lys Leu Met Ser Ile Leu			
	100	105	110
Arg Lys Lys Gly Val Lys Ala Thr Gly Thr Val Arg Glu Tyr Arg Thr			
	115	120	125
Glu Arg Cys Pro Leu Lys Asp Pro Lys Glu Leu Lys Lys Met Lys Arg			
	130	135	140
Gly Ser Phe Asp Tyr Lys Val Asp Glu Ser Glu Glu Ile Ile Val Cys			
	145	150	155
Arg Trp His Asp Ser Ser Val Val Asn Ile Cys Ser Asn Ala Val Gly			
	165	170	175
Ile Glu Pro Val Arg Leu Thr Ser Arg His Ser Gly Ala Ala Lys Thr			
	180	185	190
Arg Thr Gln Val His Gln Pro Ser Leu Val Lys Leu Tyr Gln Glu Lys			
	195	200	205
Val Gly Gly Val Gly Arg Met Asp Gln Asn Ile Ala Lys Tyr Lys Val			
	210	215	220
Lys Ile Arg Gly Met Lys Trp Tyr Ser Ser Phe Ile Gly Tyr Val Ile			
	225	230	235
Asp Ala Ala Leu Asn Asn Ala Trp Gln Leu His Arg Ile Cys Cys Gln			
	245	250	255
Asp Ala Gln Val Asp Leu Leu Ala Phe Arg Arg Tyr Ile Ala Cys Val			
	260	265	270
Tyr Leu Glu Ser Asn Ala Asp Thr Thr Ser Gln Gly Arg Arg Ser Arg			
	275	280	285
Arg Leu Glu Thr Glu Ser Arg Phe Asp Met Ile Gly His Trp Ile Ile			
	290	295	300
His Gln Asp Lys Arg Thr Arg Cys Ala Leu Cys His Ser Gln Thr Asn			

305 310 315 320
 Thr Arg Cys Glu Lys Cys Gln Lys Gly Val His Ala Lys Cys Phe Arg
 325 330 335
 Glu Tyr His Ile Arg
 340

<210> 2434

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2434

Met Val Ile Lys Val Leu Gln Met Ser Thr Cys Arg Phe Tyr Lys Lys
 1 5 10 15
 Ser Val Leu Lys Leu Leu Tyr Gln Arg Lys Val Gln His Arg Glu Leu
 20 25 30
 Asn Ala Gln Ile Thr Arg Arg Leu Leu Gly Met Leu Val Ser Asp Phe
 35 40 45
 Tyr Val Lys Ile Leu Pro Phe Ser Ser Arg Ala Ser Lys Arg Ser Lys
 50 55 60
 Tyr Pro Leu Ser Asp Ser Ile Lys Arg Val Ile Lys Tyr Phe Ser Lys
 65 70 75 80
 Lys Arg Gly Ser Thr Gln Trp Val Glu Cys Arg Asn His Gly Glu Val
 85 90 95
 Ser Gln Ser Ala Ser Phe
 100

<210> 2435

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2435

Met Ser Pro Ser Trp Glu Gln Pro Pro Ser Ser Gly Pro Val Ala Ile

1 5 10 15

Gln Leu Gln Ser Glu His Ser Thr Ser Cys Thr Gly Ile Ser Ala Gly

20 25 30

Glu Lys Asp Ile Arg Val Thr Ile Ser Thr Thr Gly Arg Glu Leu Gln

35 40 45

Gly Arg Arg Gln Pro Thr Leu Ser Leu Gln Pro Asn Cys Thr Ser Pro

50 55 60

Leu Arg Cys Gly Ala Pro Ala Ser Lys Ala Arg Glu Leu Ser Phe Pro

65 70 75 80

Lys Ala Asp Leu Asn Met Ser Leu Ser Pro Leu Lys Glu Asn Asn Asn

85 90 95

Asp Thr Phe Tyr Leu Phe Ile Leu Arg Glu Gly Leu Thr Leu Leu Pro

100 105 110

Arg Leu Glu Cys Ser Gly Met Ile Thr Ala His Tyr Ser Leu Gly Leu

115 120 125

Pro Gly Ser Ser Gly Pro Pro Thr Ser Ala Ser Gln Gly Ser Gly Thr

130 135 140

Thr Gly Met Cys His His Thr Trp Leu Thr Leu Asn Lys Phe Leu

145 150 155

<210> 2436

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2436

Met Ser Pro Val Ser Arg Val Glu Ile Asp Val Leu Gln Asn Ser Leu

1 5 10 15

Leu Asp Asp Leu Ala Pro Gly Ser Gly Lys Ser Glu Pro Arg Pro Arg

20 25 30

Phe Thr Val Leu Pro Gln Ile Leu Gly Met Leu Gln Glu Ala Glu Leu

35 40 45

Gln Gly Pro Ser Gly Phe Arg Pro Gln Thr Pro Gly Ser Leu Gln Ser

50 55 60

His His Glu Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp

65 70 75 80

Leu Gly Ser Leu Gln Arg Leu Pro Pro Arg Phe Lys Arg Phe Ser His

85 90 95

Leu Ser Leu Leu Asn Arg Trp Asp Tyr Arg His Pro Pro Pro Arg Pro

100 105 110

Asp Asn Ile Cys Ile Phe Ser Arg Asp Gly Val Ser Thr Tyr Ser Pro

115 120 125

Gly Trp Pro

130

<210> 2437

<211> 673

<212> PRT

<213> Homo sapiens

<400> 2437

Met Thr Ala Pro Pro Ile Ser His Glu Tyr Tyr Asp Pro Ala Glu Phe
 1 5 10 15
 Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu Asp Glu Leu Glu Tyr
 20 25 30
 Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg Asp Lys Leu Gly Leu
 35 40 45
 Met Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val
 50 55 60
 Gly Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg
 65 70 75 80
 Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg
 85 90 95
 Glu Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser
 100 105 110
 Leu Leu Val Ala Arg Pro Glu Ser Gln Leu Ala Lys Arg Trp Lys Asp
 115 120 125
 Ser Asp Arg Asp Asp Phe Leu Asp Asp Phe Gly Ser Glu Asn Glu Gly
 130 135 140
 Glu Leu Arg Ala Arg Lys Leu Lys Ser Pro Pro Ala Gln Gln Pro Gly
 145 150 155 160
 Asn Glu Glu Glu Lys Gly Ala Pro Asp Ala Gly Pro Gly Leu Ser Asn
 165 170 175
 Ser Gln Glu Leu Asp Ser Gly Val Gly Arg Thr Asp Glu Ser Thr Arg
 180 185 190
 Asn Glu Glu Ser Ser Glu His Asp Leu Leu Gly Asp Glu Pro Pro Ser
 195 200 205
 Ser Thr Asn Thr Pro Gly Ser Leu Arg Lys Phe Gly Leu Gln Gly Asp

210	215	220
Ala Leu Gln Ser Arg Asp Phe His Phe Ser Met Asp Ser Leu Leu Ala		
225	230	235
Glu Gly Ala Gly Leu Gly Gly Gly Asp Val Pro Gly Leu Thr Asp Glu		
245	250	255
Glu Tyr Glu Arg Tyr Arg Glu Leu Leu Glu Ile Lys Cys His Leu Glu		
260	265	270
Asn Gly Asn Gln Leu Gly Leu Leu Phe Pro Arg Ala Ser Gly Gly Asn		
275	280	285
Ser Ala Leu Asp Val Asn Arg Asn Glu Ser Leu Gly His Glu Met Ala		
290	295	300
Met Leu Glu Glu Glu Leu Arg His Leu Glu Phe Lys Cys Arg Asn Ile		
305	310	315
Leu Arg Ala Gln Lys Met Gln Gln Leu Arg Glu Arg Cys Met Lys Ala		
325	330	335
Trp Leu Leu Glu Glu Glu Ser Leu Tyr Asp Leu Ala Ala Ser Glu Pro		
340	345	350
Lys Lys His Glu Leu Ser Asp Ile Ser Glu Leu Pro Glu Lys Ser Asp		
355	360	365
Lys Asp Ser Thr Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr		
370	375	380
Pro Leu Leu Val Glu Pro Leu Pro Glu Ser Pro Leu Arg Arg Ala Met		
385	390	395
Ala Gly Asn Ser Asn Leu Asn Arg Thr Pro Pro Gly Pro Ala Val Ala		
405	410	415
Thr Pro Ala Lys Ala Ala Pro Pro Pro Gly Ser Pro Ala Lys Phe Arg		
420	425	430
Ser Leu Ser Arg Asp Pro Glu Ala Gly Arg Arg Gln His Ala Glu Glu		
435	440	445

Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu Thr Leu Glu Arg Val Gly
 450 455 460
 Pro Glu Ser Ser Pro Tyr Leu Ser Arg Arg His Arg Gly Gln Gly Gln
 465 470 475 480
 Glu Gly Glu His Tyr His Ser Cys Val Gln Leu Ala Pro Thr Arg Gly
 485 490 495
 Leu Glu Glu Leu Gly His Gly Pro Leu Ser Leu Ala Gly Gly Pro Arg
 500 505 510
 Val Gly Gly Val Ala Ala Ala Ala Thr Glu Ala Pro Arg Met Glu Trp
 515 520 525
 Lys Val Lys Val Arg Ser Asp Gly Thr Arg Tyr Val Ala Lys Arg Pro
 530 535 540
 Val Arg Asp Arg Leu Leu Lys Ala Arg Ala Leu Lys Ile Arg Glu Glu
 545 550 555 560
 Arg Ser Gly Met Thr Thr Asp Asp Asp Ala Val Ser Glu Met Lys Met
 565 570 575
 Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys Gln His Leu Ile Arg Ala
 580 585 590
 Arg Glu Gln Arg Lys Arg Arg Glu Phe Met Met Gln Ser Arg Leu Glu
 595 600 605
 Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser Lys Pro Glu Leu Asn Ile
 610 615 620
 Ile Ala Leu Ser His Arg Lys Thr Met Lys Lys Arg Asn Lys Lys Ile
 625 630 635 640
 Leu Asp Asn Trp Ile Thr Ile Gln Glu Met Leu Ala His Gly Ala Arg
 645 650 655
 Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro Leu Leu Ser Val Thr Thr
 660 665 670
 Val

<210> 2438

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2438

Met Ala Phe Ser Ser Thr His Pro His Thr Ala Cys Arg Lys Gly Pro

1 5 10 15

Arg Glu Lys Ser Gln Gly Arg Lys Ala Glu Glu Asp Gly Pro Gly Phe

20 25 30

Gly Leu Ser Val Leu Gly Ala Leu Leu Pro Gln Glu Gly Gln Arg Gly

35 40 45

Pro Trp Cys Cys Cys His His Tyr His Pro Gly His Glu Ile Ala Gly

50 55 60

Leu Gly Gln Thr Gln Arg Arg Thr Gly Arg Ala Arg Val Ser Gln Glu

65 70 75 80

His Ser Ser Ser Ala Leu Gly Cys Trp Gln Val Ala Leu Met Ala Phe

85 90 95

Gln Arg Gln Ser Leu His Pro Gly Gln Ser Ser Leu Phe Ser Gly Ala

100 105 110

Lys His Ile Gly Ser Phe Val Gln Phe Ile Asn Ser Thr Ser Leu Phe

115 120 125

Leu Arg Glu Thr Trp Leu Trp Pro Val Leu Leu Pro His Pro

130 135 140

<210> 2439

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2439

Met Arg Ser Gly Gln Asp Pro Gln Thr Pro Ser Gly Asn Thr Lys His

1 5 10 15

Pro Glu Ser Arg Leu Gln Glu Pro Cys Gly Val Arg Leu Cys Gln Arg

20 25 30

Tyr Thr Ala Gly His Lys Cys Pro Leu Ser Val Pro Pro Phe Arg Ala

35 40 45

Val Pro Cys Leu Ser Gln Gly Pro Val Thr Ser Leu Gln Gln Ser Pro

50 55 60

Ile Pro Ala Thr Pro Gly Ser Val Arg Pro Thr Leu Phe Pro Arg Glu

65 70 75 80

Arg Arg Arg Glu Lys Thr Gly Trp Ala Arg Trp Leu Thr Pro Val Ile

85 90 95

Pro Ala Leu Trp Glu Val Glu Val Gly Gly Ser Pro Glu Val Arg Ser

100 105 110

Leu Arg Pro Ala Trp Pro Thr Trp

115 120

<210> 2440

<211> 275

<212> PRT

<213> Homo sapiens

<400> 2440

Met	Ser	Thr	Ile	Gly	Ser	Phe	Glu	Gly	Phe	Gln	Ala	Val	Ser	Leu	Lys
1				5					10					15	
Gln	Glu	Gly	Asp	Asp	Gln	Pro	Ser	Glu	Thr	Asp	His	Leu	Ser	Met	Glu
			20					25					30		
Glu	Glu	Asp	Pro	Met	Pro	Arg	Gln	Ile	Ser	Arg	Gln	Ser	Ser	Val	Thr
		35					40					45			
Glu	Ser	Thr	Leu	Tyr	Pro	Asn	Pro	Tyr	His	Gln	Pro	Tyr	Ile	Ser	Arg
	50					55				60					
Lys	Tyr	Phe	Ala	Thr	Arg	Pro	Gly	Ala	Ile	Glu	Thr	Ala	Met	Glu	Asp
65					70					75				80	
Leu	Lys	Gly	His	Val	Ala	Glu	Thr	Ser	Gly	Glu	Thr	Ile	Gln	Gly	Phe
			85						90				95		
Trp	Leu	Leu	Thr	Lys	Ile	Asp	His	Trp	Asn	Asn	Glu	Lys	Glu	Arg	Ile
			100						105				110		
Leu	Leu	Val	Thr	Asp	Lys	Thr	Leu	Leu	Ile	Cys	Lys	Tyr	Asp	Phe	Ile
		115							120				125		
Met	Leu	Ser	Cys	Val	Gln	Leu	Gln	Arg	Ile	Pro	Leu	Ser	Ala	Val	Tyr
	130					135					140				
Arg	Ile	Cys	Leu	Gly	Lys	Phe	Thr	Phe	Pro	Gly	Met	Ser	Leu	Asp	Lys
145					150					155				160	
Arg	Gln	Gly	Glu	Gly	Leu	Arg	Ile	Tyr	Trp	Gly	Ser	Pro	Glu	Glu	Gln
			165						170				175		
Ser	Leu	Leu	Ser	Arg	Trp	Asn	Pro	Trp	Ser	Thr	Glu	Val	Pro	Tyr	Ala
		180							185				190		
Thr	Phe	Thr	Glu	His	Pro	Met	Lys	Tyr	Thr	Ser	Glu	Lys	Phe	Leu	Glu
		195					200					205			
Ile	Cys	Lys	Leu	Ser	Gly	Phe	Met	Ser	Lys	Leu	Val	Pro	Ala	Ile	Gln
	210					215						220			

<210> 2441

<211> 248

<212> PRT

<213> Homo sapiens

<400> 2441

出証特 2 0 0 4 - 3 0 5 9 6 6 0

100 105 110
 Phe Gly Ala Cys Pro Gly Pro Glu Ala Pro Asn Pro Val Pro Leu Cys
 115 120 125
 Leu Met Asn His Thr Lys Gly Lys Ile Met Val Val Trp Thr Arg Arg
 130 135 140
 Ser Asp Cys Pro Phe Trp Val Thr Pro Glu Ser Cys Asp Val Pro Pro
 145 150 155 160
 Leu Lys Ser Met Ala Met Arg Leu His Phe Gln Pro Pro His Pro Asn
 165 170 175
 Cys Leu Tyr Thr Val Glu Leu Glu Ala Phe Ala Ile Tyr Lys Val Cys
 180 185 190
 Ala Arg Asn Glu Arg Glu Glu Cys Gly Val Ser Ala Arg Ser Leu Ser
 195 200 205
 Gly Leu Val Gly Trp Gln Glu Val Thr Glu Gly Ser Phe Arg Leu His
 210 215 220
 Pro Leu Arg Ala Arg Leu Ser Leu Gly Trp Thr Val Thr Pro Met Ser
 225 230 235 240
 Leu Ser Pro Pro Lys Leu Leu Ala
 245

<210> 2442

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2442

Met Ala Lys Trp Gly Cys Glu Pro Leu Ala Gln Arg Leu His Pro Arg
 1 5 10 15

Leu Glu Val Ile Leu His Val Pro Lys Gln Ala Met Pro Arg Ser Ala
 20 25 30
 Lys Lys Ser Gly Gln Pro Gly His Glu Cys Thr Pro Arg Ser Pro Gly
 35 40 45
 Asn Phe Ile Gln Asp Thr Thr Gln Pro Val Leu Gln Pro Ala Gly His
 50 55 60
 Arg Leu Pro Gln Leu Ser Arg Ala Thr Thr Thr Leu Thr Glu Val Ser
 65 70 75 80
 Gln Glu Ala Thr Leu Asp Thr Gly Arg Gln Gln Gly Met Glu Arg Gly
 85 90 95
 Lys Lys Gly Gly Lys Thr Pro Ser Cys Gly Arg Val Ala Lys Asp Gly
 100 105 110

<210> 2443

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2443

Met Gly Val Glu Glu Phe Gly Val Asn Leu Tyr Ile Leu Gln Ile Ile
 1 5 10 15
 Phe Gly Gly Val Asp Val Pro Ala Lys Phe Ile Thr Ile Leu Ser Leu
 20 25 30
 Ser Tyr Leu Gly Arg His Thr Thr Gln Ala Ala Ala Leu Leu Leu Ala
 35 40 45
 Gly Gly Ala Ile Leu Ala Leu Thr Phe Val Pro Leu Gly Glu Arg Leu
 50 55 60
 Gly Leu Pro Gln Asn Pro Leu Glu Glu Ala Ala Arg Leu Gly Ala Arg

65	70	75	80
Asp Phe Thr Ala Gly Ser Ala Ser Lys Ser Leu Cys Tyr Leu Glu Gln			
	85	90	95
Val Pro Ala Leu Ser Gly Ala Gln Gly Leu Ser Ser Arg Lys			
100	105	110	

<210> 2444

<211> 237

<212> PRT

<213> Homo sapiens

<400> 2444

Met His Leu Thr Phe Asn Leu Arg Ser Trp Ala Cys Val Glu Leu Val			
1	5	10	15
Phe Gly Ala Tyr Lys Ser Glu Ser His Leu Trp Arg Ser Ser Arg Leu			
20	25	30	
Val Lys Cys Gly Gln Thr Cys Phe Pro Pro Leu Gly Asn Gly Thr Glu			
35	40	45	
Gln Pro Ile Cys Lys Thr Trp Phe Phe Ser Ile Arg Trp Val Ile Tyr			
50	55	60	
Met Tyr Val Leu Val Leu Trp Phe Phe Leu Phe Phe Val Leu Phe Cys			
65	70	75	80
Phe Val Leu Arg Pro Ser Leu Ala Leu Ser Pro Gly Arg Glu Cys Ser			
85	90	95	
Gly Ala Ile Pro Ala His Ser His Leu Cys Val Pro Gly Leu Gly Gly			
100	105	110	
Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Asp Thr Gln			
115	120	125	

Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Cys His Val Gly Gln
 130 135 140
 Ala Asp Leu Lys Leu Leu Thr Ser Ser Asn Pro Pro Thr Leu Ala Ser
 145 150 155 160
 Gln Ser Ala Arg Ile Thr Asp Met Ser His His Ala Trp Pro Thr Met
 165 170 175
 Val Tyr Phe Tyr Lys Asn Phe Tyr Ser Glu Lys Met Gly Thr Phe Ser
 180 185 190
 Val Val Val Ile Thr Val Ser Cys Arg Leu Cys Val Arg Ser Ala Val
 195 200 205
 Glu Pro Val Val Ala Gln Ala Ala Leu Ser Gly Val Ser Glu Leu Phe
 210 215 220
 Pro Cys Thr Pro Val Ser Ala Gly Ala Gly Asn Ala Pro
 225 230 235

<210> 2445

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2445

Met Arg Thr Ala Thr Ser Thr Gly Arg Arg Ile Ser Pro Asn Ser Gln
 1 5 10 15
 Val Ser Gly Leu Met Ala Thr Thr Ala Glu Ser Thr Pro Arg Pro Gly
 20 25 30
 Ala Ser Ser Cys Leu Ala Gly Val Thr Ala Pro Ser Thr Pro Thr Gly
 35 40 45
 Cys Gly Ser Ala Ala Arg Lys Ser Ile Thr Leu Tyr Thr Leu Asn Gly

50 55 60
 Lys Lys Val Glu Val Ala Val Lys Gln Ile Ile Ala Gly Lys Ala Val
 65 70 75 80
 Glu Gln Gly Gly Ala Phe Ser Asn Pro Glu Thr Leu Asp Leu Tyr Arg
 85 90 95
 Asp Ile Pro Glu Leu Gln Gly Phe
 100

<210> 2446

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2446

Met Val His Ile Asn Tyr Met Trp Gly Lys Asn Ala Ile Phe Trp Ala
 1 5 10 15
 Arg Glu Thr Lys Gly Phe Ser Ile Tyr Glu Met Pro Gly Cys Gln Phe
 20 25 30
 Ser Lys Pro Phe Pro Leu Asp Tyr Ser Gly Pro Arg Pro Phe Ser Asn
 35 40 45
 Pro Thr Asn Gln Leu Leu Asp Pro Ala Pro Arg Ser Ser Gly Leu Gly
 50 55 60
 Ala Gly Phe Arg Glu Glu Asn Leu Ile Lys Leu Phe Cys Leu Val Leu
 65 70 75 80
 Val Thr Ala Val Ala Gly Glu Glu Phe Ile Ile Ile Lys Tyr Ile Phe
 85 90 95
 Val Ile Thr Leu Trp Ile Leu Ile Ile His Leu Val
 100 105

<210> 2447

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2447

Met Cys Asn Lys Ala Gly Glu Thr Val Gln His Thr Arg Gly Gln Pro
 1 5 10 15
 Phe Pro Leu Met Val Ala Glu Leu Thr Pro Gly Gly Gly Leu Thr Pro
 20 25 30
 Ala Ala Arg Ala Arg Leu Asp Phe Arg Asn Met Ala Leu Leu Ala Trp
 35 40 45
 Asp Ser Arg Ala Val Glu Ile Pro Val Gly Gly Arg Pro Gly Pro Ser
 50 55 60
 His Gly Leu Gly Ser Arg Lys Pro Arg Phe His Thr Met Glu Arg Gln
 65 70 75 80
 Pro Pro Ala Trp Ala Gly Arg Gly Leu Ser His Leu Leu Leu Ser Ser
 85 90 95
 Ala Gly Leu Arg Arg Ala Glu Leu Pro Gly Ala Gly Val Ala Asn Glu
 100 105 110
 Asp Asn Lys Gln Met
 115

<210> 2448

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2448

Met Pro Cys Ser Ser Arg Leu Leu Met Ala Tyr Ile Glu Asp Thr Gly
1 5 10 15
Lys Met Val Val Asp Met Pro Ser Thr Met Thr Ser Lys Pro Gln Tyr
20 25 30
Phe His Pro Lys Ser Leu Thr Ser Asp Asn Ser His Ile Pro Leu Leu
35 40 45
Leu Pro Asn Trp Lys Ala Asp Cys Pro Val Asn Val Thr Met Ser Leu
50 55 60
Lys His Leu Ile Lys Asn Leu Leu Asn Trp Asp Ile Trp Val Gly Lys
65 70 75 80
Ile Gly Ile Pro Leu Trp Lys Thr Pro Arg Leu Pro Trp Ser Tyr Thr
85 90 95
Asn Trp Leu Asn Ser Ser Gly Lys Asn Thr Leu Pro Arg Ile Pro Arg
100 105 110
Lys Thr Gly Asp Asn Gly Asp Val Gly Asp Val Gly Arg Gln Lys Gln
115 120 125
His Gln Glu Lys
130

<210> 2449

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2449

Met Tyr Leu Leu Arg Lys Ser Phe Ala Leu Val Ala Gln Ala Gly Val
 1 5 10 15
 Gln Trp His Asp Leu Ser Ser Pro Gln Pro Leu Pro Pro Arg Phe Lys
 20 25 30
 Gln Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Met
 35 40 45
 Pro Pro Arg Pro Ala Asn Phe Phe Val Phe Leu Leu Glu Thr Gly Phe
 50 55 60
 Leu His Val Gly Gln Ala Gly Leu Glu Ile Ser Thr Ser Gly Asp Pro
 65 70 75 80
 Pro Val Ser Val Ser Gln Ser Ala Gly Ile Thr Asp Val Ser His His
 85 90 95
 Ala Arg Pro Asn Ile Phe Cys His Ser Arg Ile Lys Pro Cys Thr Gln
 100 105 110
 Asp Ala Gly Arg Pro His Ser Gln Tyr Phe Met His Leu Ala Asp Thr
 115 120 125
 Asn Leu Leu Ser Val Cys Met Gly Leu Pro Ile Leu Gly Met
 130 135 140

<210> 2450

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2450

Met Leu Phe Leu Leu Thr Pro Ser Ser His His Gln His Glu Cys Val
 1 5 10 15
 Arg Arg Ala Phe Glu Cys Gly Asp Cys His Ile Leu Leu Asp Asn Asn

20 25 30
 Val Leu Gly Val Asp Cys His Gly Ala Gly Glu Arg Ala Val His Leu
 35 40 45
 Glu Asp His Phe Val His Ile Asp Thr Ile Ser Leu Leu Leu Glu Asp
 50 55 60
 Ala Leu Glu Tyr Ser Ala Leu Ile Ala Gly His Pro Lys Ser Asp Leu
 65 70 75 80
 Pro Pro Gly Leu Ser Arg Cys Arg Pro Trp Glu His His Trp Pro Ile
 85 90 95
 Ser Tyr Thr Gly
 100

<210> 2451

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2451

Met Phe Val His Leu Cys Gly Asp Ile Cys Asp Ile Leu Leu Thr Cys
 1 5 10 15
 Ile Glu Cys Val Met Ile Lys Ser Glu Tyr Leu Gly Tyr Pro Ser Leu
 20 25 30
 Arg Val Ser Thr Ile Cys Met Cys Trp Glu His Phe Lys Phe Ser Pro
 35 40 45
 Leu Ala Ile Leu Lys Tyr Thr Thr Tyr Cys Glu Leu Glu Ser Pro Tyr
 50 55 60
 Ser Ala Ile Gln Tyr Tyr Asn Leu Phe Leu Leu Ser Asp Cys Met Leu
 65 70 75 80

Tyr Pro Leu Thr Asn Leu Ser Ser Ser Pro Cys Pro Leu Thr Tyr Pro

85

90

95

Phe Gln Thr Leu Glu Ser Ile Ile Leu Leu Tyr Phe Tyr Phe

100

105

110

<210> 2452

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2452

Met Gln Thr Ala Ala His His Arg Gly Val Pro His Gly Cys Leu Ser

1

5

10

15

Leu Leu Gly Trp Ser Lys Thr Ser His Ser Leu Glu Ala Pro Glu Asp

20

25

30

Asp Gly Gly Trp Ser Ser Ala Glu Glu Gln Ile Asn Ser Ser Asp Ala

35

40

45

Glu Glu Asp Gly Gly Leu Gly Pro Lys Lys Leu Val Pro Gly Lys Tyr

50

55

60

Thr Val Val Ala Asp His Glu Lys Gly Gly Pro Asp Ala Leu Arg Val

65

70

75

80

Arg Ser Gly Asp Val Val Glu Leu Val Gln Glu Gly Asp Glu Gly Leu

85

90

95

Trp Tyr Val Arg Asp Pro Thr Thr Gly Lys Glu Gly Trp Val Pro Ala

100

105

110

Ser Ser Leu Ser Val Arg Leu Gly Pro Ser Gly Ser Ala Gln Cys Leu

115

120

125

Ser Ser Ser Glu Ser Ser Pro Gly Ser Ala Val Leu Ser Asn Ser Ser

130 135 140
Ser Cys Ser Glu Gly Gly Gln Ala Pro Phe Ser Asp Leu Gln Gly
145 150 155

<210> 2453

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2453

Met Phe Thr Gln Thr Gly Ala Leu Glu Leu Arg Thr Arg Val Phe Ser
1 5 10 15
Ala Gly Arg Cys Ala Gln Ile Lys Pro Pro Arg Gly Asn Leu His Gly
20 25 30
Val Arg Cys Lys Val Thr Pro Phe Asn Ser Arg Tyr Gln Leu His Pro
35 40 45
Ser Val Arg Gly Lys Glu Val Arg Tyr Ser Gly Phe Asn Pro Arg Pro
50 55 60
Ala Gln Pro Gln His Ala Gln Ser Arg Gly Tyr Leu Gly Thr Gly Arg
65 70 75 80
His Leu Thr Pro Ser Leu Thr Gln Pro Gly Phe Gly Ser Ser Gln Pro
85 90 95
Ala Ser His Pro Leu Cys Gly Tyr
100

<210> 2454

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2454

Met Gly Trp Gly Lys Val Ala Arg Phe Arg Arg Arg Glu Arg Lys Asn
1 5 10 15

Arg Cys Ser Ser Lys Glu Asp Cys Arg Cys Ser Pro Gly Pro Gly Ser
20 25 30

Leu Pro Arg Arg Arg Ala Ala Arg Thr Pro Ala Ser Trp Gln Arg Ser
35 40 45

Pro Arg Arg Asn His His Ser Glu Ala Phe Cys Pro Leu Ala Ala Ala
50 55 60

Leu Pro Lys Thr Thr Gly Pro Pro Gly Gly Arg Asp Lys Pro Thr Arg
65 70 75 80

Ser Leu Val Phe Arg Glu Arg Arg Val Pro Val Ser Leu Arg Glu Met
85 90 95

Met Phe Lys Ile Pro Ala Arg Ala Pro Ser Pro Ala Val Lys His Gln
100 105 110

Leu Ala Ala
115

<210> 2455

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2455

Met Pro Ala Leu Gly Pro Leu Leu Arg Leu Glu Leu Met Arg Ala Ala

1	5	10	15
Val Asp Thr Gly Gly Thr Gln Arg Pro Ala Ala Cys Glu Ser Ser Arg			
20	25	30	
Gly Gln Ser Trp Glu Pro Gly Ala Gly Thr Arg Gln Val Ser Asp Cys			
35	40	45	
Glu Met Pro Ala Ala Ser Pro Arg Lys Ala Ala Cys Ser Ile Trp Lys			
50	55	60	
Leu Leu Cys Ser Pro Trp Pro Leu Cys Ser Ser Ser Pro Gly Leu Gly			
65	70	75	80
Ser Thr Arg Val Pro Leu Cys Leu Ser Arg Ala His Ser Pro Thr Ala			
85	90	95	
Pro Ala Cys Thr Val Met Thr Ser Gly Arg Trp Val Pro Ala Pro Ser			
100	105	110	
Arg Pro Arg Pro Pro Ser Leu Leu Pro Ala Ser Cys Pro Ala Asp Pro			
115	120	125	

<210> 2456

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2456

Met Cys Trp Leu Phe Phe Leu Arg Trp Ser Pro Thr Val Ser Ser Arg			
1	5	10	15
Leu Glu Cys Ser Gly Val Ile Leu Ala His Arg Asn Leu Ser Leu Pro			
20	25	30	
Gly Ser Ser Asn Ser Cys Ala Ser Ala Ser Arg Val Ala Gly Thr Thr			
35	40	45	

Gly Thr His Asn His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr
 50 55 60
 Gly Phe Cys His Val Ala Gln Ala Gly Leu Glu Leu Leu Ala Ser Ser
 65 70 75 80
 Asp Pro Pro Ala Ser Ala Ser Gln Lys Tyr Trp Asp Tyr Arg His Glu
 85 90 95
 Pro Pro Arg Pro Ala Trp Pro Phe Asp Phe Ile Phe Ile Ser Ser Trp
 100 105 110
 Pro Gln Asn Ser Cys Trp Ile Leu Gln Thr Leu His Leu Tyr Gln Gly
 115 120 125
 Arg Lys Lys Arg Asp Arg Ala Glu Phe Val Asn Cys Leu Cys Arg Phe
 130 135 140
 Tyr Gln Glu Lys Lys Ser Val Pro Arg Arg Leu Pro Thr Asp Phe Leu
 145 150 155 160

<210> 2457

<211> 204

<212> PRT

<213> Homo sapiens

<400> 2457

Met Asp Ser Asp Ser Gly Glu Gln Ser Glu Gly Glu Pro Val Thr Ala
 1 5 10 15
 Ala Gly Pro Asp Val Phe Ser Ser Lys Ser Leu Ala Leu Gln Ala Gln
 20 25 30
 Lys Lys Ile Leu Ser Lys Ile Ala Ser Lys Thr Val Ala Asn Met Leu
 35 40 45
 Ile Asp Asp Thr Ser Ser Glu Ile Phe Asp Glu Leu Tyr Lys Val Thr

50	55	60
Lys Glu His Thr His Asn Lys Lys Glu Ala His Lys Ile Met Lys Asp		
65	70	75
Leu Ile Lys Val Ala Ile Lys Ile Gly Ile Leu Tyr Arg Asn Asn Gln		80
	85	90
Phe Ser Gln Glu Glu Leu Val Ile Val Glu Lys Phe Arg Lys Lys Leu		95
100	105	110
Asn Gln Thr Ala Met Thr Ile Val Ser Phe Tyr Glu Val Glu Tyr Thr		
115	120	125
Phe Asp Arg Asn Val Leu Ser Asn Leu Leu His Glu Cys Lys Asp Leu		
130	135	140
Val His Glu Leu Val Gln Arg His Leu Thr Pro Arg Thr His Gly Arg		
145	150	155
Ile Asn His Val Phe Asn His Phe Ala Asp Val Glu Phe Leu Ser Thr		160
	165	170
Leu Tyr Ser Leu Asp Gly Asp Cys Arg Pro Asn Leu Lys Arg Ile Cys		175
180	185	190
Glu Gly Ile Asn Lys Leu Leu Asp Glu Lys Val Leu		
195	200	

<210> 2458

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2458

Met Glu Pro Thr Tyr Arg Val Ala Ser Arg Glu Thr His Gly His Ala
1 5 10 15

Pro Ser Leu Arg Pro Ser Gly Pro Leu Val Lys Leu His Gln Gly Cys
 20 25 30
 Phe Leu Leu Gly Cys Val Ser Gly Arg Gln Leu Arg Leu Val Gly Asp
 35 40 45
 Asn Leu Cys Trp Glu Val Thr Leu Leu Pro Arg Lys Phe Trp Asn Pro
 50 55 60
 Gln Pro Gly Ala Gly Thr Gly Ala Ser Ser Leu Ala Glu Ser Gln Val
 65 70 75 80
 Thr Arg Gly Pro His Val Ser Gly Phe Thr Phe Pro Tyr Phe Ile His
 85 90 95
 Ser Leu Thr Gln Ser Leu Arg Ile Thr Glu Glu His Trp Ala Glu His
 100 105 110
 Met Thr Gly Ser Leu Glu Pro Arg Gly Leu Gln Arg Gly Leu Arg Arg
 115 120 125
 Val Val Arg Val Thr Thr Val Gly Ser Leu Pro Ser Gln Lys Val Asp
 130 135 140
 Arg Ala Tyr Pro Gly Gly Gly Asp His Pro Ala Ile Arg Cys Leu Arg
 145 150 155 160
 Gln Gly Leu Gly Gln Leu Arg Gln Ala Val Phe Phe Phe Pro Phe Leu
 165 170 175
 Phe Asn Arg Cys Asn Ile Phe Ile Ile Ile Leu Glu Thr Phe Phe Leu
 180 185 190
 Pro Lys Ile Thr Asp Gln Lys Lys Phe His Leu Lys Tyr His Ala Gln
 195 200 205
 Glu Ser Thr Trp Asp Gln Lys
 210 215

<210> 2459

<211> 718

<212> PRT

<213> Homo sapiens

<400> 2459

Met Asp Leu Gly Lys Val Arg Arg Ala Lys Ala Ile Leu Ser His Leu

1 5 10 15

Val Lys Cys Ile Ala Gly Glu Val Ala Ile Val Arg Asp Pro Asp Ala

20 25 30

Gly Glu Gly Thr Lys Arg His Leu Ser Arg Thr Ile Ser Val Ser Gly

35 40 45

Ser Thr Ala Lys Glu Thr Val Thr Val Gly Lys Asp Gly Thr Arg Asp

50 55 60

Tyr Thr Glu Ile Asp Ser Ile Pro Pro Leu Pro Leu Tyr Ala Leu Leu

65 70 75 80

Ala Ala Asp Gln Asp Thr Ser Tyr Arg Ile Ser Glu Glu Ser Thr Lys

85 90 95

Ile Pro Gln Ser Tyr Glu Asp Gln Thr Val Ser Gln Pro Glu Asp Gln

100 105 110

Tyr Ser Glu Leu Phe Gln Ile Gln Asp Ile Pro Thr Asp Asp Ile Asp

115 120 125

Leu Glu Pro Glu Lys Arg Glu Asn Lys Ser Lys Val Ile Asn Leu Ser

130 135 140

Gln Tyr Gly Pro Ala Tyr Phe Gly Gln Glu His Ala Arg Val Leu Ser

145 150 155 160

Ser His Leu Met His Ser Ser Leu Pro Gly Leu Thr Arg Leu Glu Gln

165 170 175

Met Phe Leu Val Ala Leu Ala Asp Thr Val Ala Thr Thr Ser Thr Glu

180 185 190

Leu Asp Glu Ser Arg Asp Lys Ser Cys Ser Gly Arg Asp Thr Leu Asp
 195 200 205
 Glu Cys Gly Leu Arg Tyr Leu Leu Ala Met Arg Leu His Thr Cys Leu
 210 215 220
 Leu Thr Ser Leu Pro Pro Leu Tyr Arg Val Gln Leu Leu His Gln Gly
 225 230 235 240
 Val Ser Thr Cys His Phe Ala Trp Ala Phe His Ser Glu Ala Glu Glu
 245 250 255
 Glu Leu Ile Asn Met Ile Pro Ala Ile Gln Arg Gly Asp Pro Gln Trp
 260 265 270
 Ser Glu Leu Arg Ala Met Gly Ile Gly Trp Trp Val Arg Asn Ile Asn
 275 280 285
 Thr Leu Arg Arg Cys Ile Glu Lys Val Ala Lys Ala Ser Phe Gln Arg
 290 295 300
 Asn Asn Asp Ala Leu Asp Ala Ala Leu Phe Tyr Leu Ser Met Lys Lys
 305 310 315 320
 Lys Ala Val Val Trp Gly Leu Phe Arg Ser Gln His Asp Glu Lys Met
 325 330 335
 Thr Thr Phe Phe Ser His Asn Phe Asn Glu Asp Arg Trp Arg Lys Ala
 340 345 350
 Ala Leu Lys Asn Ala Phe Ser Leu Leu Gly Lys Gln Arg Phe Glu Gln
 355 360 365
 Ser Ala Ala Phe Phe Leu Leu Ala Gly Ser Leu Lys Asp Ala Ile Glu
 370 375 380
 Val Cys Leu Glu Lys Met Glu Asp Ile Gln Leu Ala Met Val Ile Ala
 385 390 395 400
 Arg Leu Tyr Glu Ser Glu Phe Glu Thr Ser Ser Thr Tyr Ile Ser Ile
 405 410 415
 Leu Asn Gln Lys Ile Leu Gly Cys Gln Lys Asp Gly Ser Gly Phe Ser

420 425 430
Cys Lys Arg Leu His Pro Asp Pro Phe Leu Arg Ser Leu Ala Tyr Trp
435 440 445
Val Met Lys Asp Tyr Thr Arg Ala Leu Ala Thr Leu Leu Glu Gln Thr
450 455 460
Pro Lys Glu Asp Asp Glu His Gln Val Ile Ile Lys Ser Cys Asn Pro
465 470 475 480
Val Ala Phe Ser Phe Tyr Asn Tyr Leu Arg Thr His Pro Leu Leu Ile
485 490 495
Arg Arg Asn Leu Ala Ser Pro Glu Gly Thr Leu Ala Thr Leu Gly Leu
500 505 510
Lys Thr Glu Lys Asn Phe Val Asp Lys Ile Asn Leu Ile Glu Arg Lys
515 520 525
Leu Phe Phe Thr Thr Ala Asn Ala His Phe Lys Val Gly Cys Pro Val
530 535 540
Leu Ala Leu Glu Val Leu Ser Lys Ile Pro Lys Val Thr Lys Thr Ser
545 550 555 560
Ala Leu Ser Ala Lys Lys Asp Gln Pro Asp Phe Ile Ser His Arg Met
565 570 575
Asp Asp Val Pro Ser His Ser Lys Ala Leu Ser Asp Gly Asn Gly Ser
580 585 590
Ser Gly Ile Glu Trp Ser Asn Val Thr Ser Ser Gln Tyr Asp Trp Ser
595 600 605
Gln Pro Ile Val Lys Val Asp Glu Glu Pro Leu Asn Leu Asp Trp Gly
610 615 620
Glu Asp His Asp Ser Ala Leu Asp Glu Glu Glu Asp Asp Ala Val Gly
625 630 635 640
Leu Val Met Lys Ser Thr Asp Ala Arg Glu Lys Asp Lys Gln Ser Asp
645 650 655

Gln Lys Ala Ser Asp Pro Asn Met Leu Leu Thr Pro Gln Glu Glu Asp
 660 665 670
 Asp Pro Glu Gly Asp Thr Glu Val Asp Val Ile Ala Glu Gln Leu Lys
 675 680 685
 Phe Arg Ala Cys Leu Lys Ile Leu Met Thr Glu Leu Arg Thr Leu Ala
 690 695 700
 Thr Gly Tyr Glu Val Asp Gly Gly Lys Leu Ile His Leu Leu
 705 710 715

<210> 2460

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2460

Met Glu Thr Lys Lys Asp His Pro Tyr Thr Trp Arg Ile Glu Leu Ala
 1 5 10 15
 Lys Thr Glu Lys Tyr Trp Asp Gly Trp Phe Arg Gly Leu Ser Asn Leu
 20 25 30
 Phe Leu Ser Cys Pro Ile Pro Lys Leu Leu Leu Leu Ala Gly Val Asp
 35 40 45
 Arg Leu Asp Lys Asp Leu Thr Ile Gly Gln Met Gln Gly Lys Phe Gln
 50 55 60
 Met Gln Val Leu Pro Gln Cys Gly His Ala Val His Glu Asp Ala Pro
 65 70 75 80
 Asp Lys Val Ser Leu Val Leu Ser Asp Cys Lys Arg Thr Thr Val Arg
 85 90 95
 Ile Thr Leu Asp Val Thr Glu Asp Lys Ser Leu Ser Leu Ser Leu His

100 105 110
 Cys Leu Gln Gln Leu Leu Trp Ser Leu Cys Arg Cys Ser Ser Thr Ser
 115 120 125
 Ser Pro Thr Ser Pro Trp Gln Leu Leu Met Val Leu Val Leu Cys Ile
 130 135 140
 Cys Ala Glu Glu Leu Leu Thr Leu Cys Tyr Phe Ile Pro Gly Pro Cys
 145 150 155 160
 Gly

<210> 2461

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2461

Met Thr Lys Pro Trp Ile Arg Ser His Glu Thr Arg Ile Gln Glu Ser
 1 5 10 15
 Leu Ser Gln Phe Gly His Lys Gln Val Met Ile Asn Pro Gly Pro Thr
 20 25 30
 Thr Ser Leu Gly Asn Thr Thr Ile Ser Gln Ser Ala Lys Thr Glu Pro
 35 40 45
 Glu Arg Glu Thr Leu Gln Val Gln Glu Glu Arg Phe Gln Leu Leu Leu
 50 55 60
 Leu Ser Val Ala Ser Pro Asn Val Thr Thr Phe Ser Glu Gln Gly Leu
 65 70 75 80
 Val Thr Thr Thr Lys His Cys Ser Gly Thr Ala Glu Pro Leu Ala Trp
 85 90 95

His Val Val Thr His Ser Gln His Asn Ser Leu Thr Phe

100

105

<210> 2462

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2462

Met His Gln Gly Leu Lys Asp Val Gly Ala Lys Val Thr Gly Phe Ser

1

5

10

15

Glu Gly Val Val Asp Ser Val Lys Gly Gly Phe Ser Ser Phe Ser Gln

20

25

30

Ala Thr His Ser Ala Ala Gly Ala Val Val Ser Lys Pro Arg Glu Ile

35

40

45

Ala Ser Leu Ile Arg Asn Lys Phe Gly Ser Ala Asp Asn Ile Pro Asn

50

55

60

Leu Lys Asp Ser Leu Glu Glu Gly Gln Val Asp Asp Ala Gly Lys Ala

65

70

75

80

Leu Gly Val Ile Ser Asn Phe Gln Ser Ser Pro Lys Tyr Gly Ser Glu

85

90

95

Glu Asp Cys Ser Ser Ala Thr Ser Gly Ser Val Gly Ala Asn Ser Thr

100

105

110

Thr Gly Gly Ile Ala Val Gly Ala Ser Ser Ser Lys Thr Asn Thr Leu

115

120

125

Asp Met Gln Ser Ser Gly Phe Asp Ala Leu Leu His Glu Ile Gln Glu

130

135

140

Ile Arg Glu Thr Gln Ala Arg Leu Glu Glu Ser Phe Glu Thr Leu Lys

145 150 155 160
Glu His Tyr Gln Arg Asp Tyr Ser Leu Ile Met Gln Thr Leu Gln Glu
 165 170 175
Glu Arg Tyr Arg Cys Glu Arg Leu Glu Glu Gln Leu Asn Asp Leu Thr
 180 185 190
Glu Leu His Gln Asn Glu Ile Leu Asn Leu Lys Gln Glu Leu Ala Ser
 195 200 205
Met Glu Glu Lys Ile Ala Tyr Gln Ser Tyr Glu Arg Ala Arg Asp Ile
 210 215 220
Gln Glu Ala Leu Glu Ala Cys Gln Thr Arg Ile Ser Lys Met Glu Leu
225 230 235 240
Gln Gln Gln Gln Gln Gln Val Val Gln Leu Glu Gly Leu Glu Asn Ala
 245 250 255
Thr Ala Arg Asn Leu Leu Gly Lys Leu Ile Asn Ile Leu Leu Ala Val
 260 265 270
Met Ala Val Leu Leu Val Phe Val Ser Thr Val Ala Asn Cys Val Val
 275 280 285
Pro Leu Met Lys Thr Arg Asn Arg Thr Phe Ser Thr Leu Phe Leu Val
 290 295 300
Val Phe Ile Ala Phe Leu Trp Lys His Trp Asp Ala Leu Phe Ser Tyr
305 310 315 320
Val Glu Arg Phe Phe Ser Ser Pro Arg
 325

<210> 2463

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2463

Met Val Ser Thr Thr Ser Phe Ile Ala Cys Phe Leu Ile Trp Pro Pro
 1 5 10 15
 Ala Arg Leu Val Met Glu Gly Val His Ser Pro Gly Ser Val Ile Val
 20 25 30
 Pro Ile Leu Tyr Glu Ala Cys Leu Trp Ser Gly Pro Leu Thr Val Phe
 35 40 45
 Ile Leu Leu Asp Pro Tyr Ser Pro Ile Arg Gln Val Leu Pro Leu Arg
 50 55 60
 Ile Lys Asn Lys Val Ser Glu Glu Glu Val Gly Lys Tyr Thr Ile Val
 65 70 75 80
 Gly Ile Cys Ala Lys Arg Ser His Glu Lys Arg Phe Leu His Gln Pro
 85 90 95
 Arg Lys Val Glu Met Ser Ala Leu Arg
 100 105

<210> 2464

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2464

Met Leu Leu Leu Pro Pro Ser Cys Glu Ala Val Ala Pro Arg Gly Trp
 1 5 10 15
 Arg Arg Ser Cys Ser Cys Pro Glu Cys Cys Arg Val Cys Ser Ser Pro
 20 25 30
 Val Arg Leu Gln Arg His Arg Ala Leu Leu Ser Thr Pro Glu Ser Phe

35	40	45	
Ala Cys Ala Ala Ser Ala Arg Ala Ser Ser Ala Pro Gly Pro Gly Ala			
50	55	60	
Ala Arg Glu Pro Ala Ser Gly Phe Gln Trp Ala Pro Trp Ala Val Pro			
65	70	75	80
Ala Phe Pro Thr Ser Ala Ser Gly Lys Ala Trp Pro Ser Leu Arg Phe			
85	90	95	
Gly Val Ala Thr Cys Leu Leu Gly Ile Ser His Leu Pro Thr Cys Ala			
100	105	110	
Cys Ser Arg Leu Ala Leu Cys Gly Pro Arg Phe Pro His Val Pro Arg			
115	120	125	
Gly Lys Asn Ile Pro Ser Pro Thr Ile Trp Gln Arg Leu Ala Phe Ser			
130	135	140	
Gly Pro Arg Pro Pro His Leu Leu Gly Gly Glu Ser Arg Pro Gly His			
145	150	155	160
Ile Gly Ala Asn Gly Trp Ser Leu Asp Leu Gly Leu His Ile Cys Ser			
165	170	175	
Ala Gly Arg Asn Ile Pro Ser Pro Ala Leu Tyr Leu Gly Gly Trp Pro			
180	185	190	
Arg Pro Ser Arg Gln Arg Arg Pro Ser Gly Lys Arg Thr Asn Pro Cys			
195	200	205	
Gly Pro			
210			

<210> 2465

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2465

Met Leu Pro Ser Pro Pro Thr Asp Val Ile Ser Phe Tyr Ile Arg Asp
 1 5 10 15
 Ser Ser Glu Pro Thr Pro Leu Arg Ile Tyr Thr Leu Val Phe Val Leu
 20 25 30
 Leu Leu Ser Leu Gly Trp Pro Val Thr Leu Ile Ser Ala Met Gln Lys
 35 40 45
 Trp Phe Ser Ala Ser Ser Lys Thr Thr Lys Arg Lys Lys Ser Ser Thr
 50 55 60
 Phe Gln Tyr Pro Ser Arg His Gln Ala Pro Ala Val Ser Pro Ala Ser
 65 70 75 80
 Arg Pro Arg Val Thr Thr Thr Asn Pro Ala Glu Pro Thr Ser Ala Ser
 85 90 95
 Gln Pro Trp Leu Gln Asn His Glu
 100

<210> 2466

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2466

Met Val Val Ser Trp Leu Leu Glu Thr Arg His Asn Gln Glu Gly Glu
 1 5 10 15
 Gly Ile Asn Leu Gly Trp Ala Gly Ala Glu Thr His Gly Met Thr Pro
 20 25 30
 Ile Leu Ser Pro Gln Ala Arg Pro Pro Arg His Pro Gln Asp His Thr

35 40 45
 Gly Glu Ser His Pro His Gly Leu Asp Trp Ser Trp Gly Pro Pro Val
 50 55 60
 Val Leu Leu Thr Gly Val Gln Cys Ser Arg Ala Ala Gln Arg Gly Ala
 65 70 75 80
 Arg Lys Gly Pro Ser Pro Ser Pro Ala Ile Pro Ile Ser Ala Ser Leu
 85 90 95
 Ala Leu Val Pro
 100

<210> 2467

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2467

Met Thr Lys Val Ser Ser Ser Leu Gln Ser His Pro Phe Gln Leu Gly
 1 5 10 15
 Gly Pro Arg Leu His Cys Asn Ser Asn Ser Gln Ile Ser Val Asp Val
 20 25 30
 Lys Glu Gln Ile Ala Met His Val His Pro Thr Gly Val Glu Gly Phe
 35 40 45
 Tyr Ser Leu Thr Pro Ser Leu His Met Ser Leu Leu His Leu Leu Lys
 50 55 60
 Val Phe Gly Ser Glu Leu Ala Thr Trp Pro His Pro Thr Ser Arg Arg
 65 70 75 80
 Glu Asn Met Pro Ala Tyr His Val Pro Arg Arg Thr Asn Gln Asn Ile
 85 90 95

Cys Glu Leu Pro His Leu Met Thr Pro Cys His Thr Leu Leu Ser Ser
 100 105 110
 Ser Glu Phe Leu Leu His Ser Ser Ile Pro Tyr Gln Asp Arg Ser Leu
 115 120 125
 His Cys Val Arg Phe
 130

<210> 2468

<211> 269

<212> PRT

<213> Homo sapiens

<400> 2468

Met Pro Phe Met Asp Glu Ser Ser Gly Ser Asp Asp Asp Cys Ser Ser
 1 5 10 15
 Gln Ala Ser Phe Arg Ile Ser Val Pro Ser Ser Glu Ser Arg Lys Thr
 20 25 30
 Ser Gly Leu Gly Ser Pro Arg Ala Ile Lys Arg Gly Val Ser Met Ser
 35 40 45
 Ser Leu Ser Ser Glu Gly Asp Tyr Ala Ile Pro Pro Asp Ala Cys Ser
 50 55 60
 Leu Asp Ser Asp Tyr Ser Glu Pro Glu His Lys Leu Gln Arg Thr Ser
 65 70 75 80
 Ser Tyr Ser Thr Asp Gly Leu Gly Leu Gly Gly Glu Ser Leu Glu Lys
 85 90 95
 Ser Gly Tyr Leu Leu Lys Met Gly Ser Gln Val Lys Thr Trp Lys Arg
 100 105 110
 Arg Trp Phe Val Leu Arg Gln Gly Gln Ile Met Tyr Tyr Lys Ser Pro

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ala Ile Ile Leu Pro Cys Gly Gly Thr Gly Gly Arg Tyr Ser Val Leu
20 25 30
Leu Thr Ala Val His Phe Arg Gly Leu Thr Met Glu Gln Thr Ala Trp
35 40 45
Val Leu Asp Leu Asp Thr Gly Glu Ala Val Leu Gln Tyr Arg Ser Leu
50 55 60
Pro Arg Gly Ala His Lys Thr Leu Gly Lys Lys Arg Lys Ile Ser Ser
65 70 75 80
Tyr Asn Val Asn Leu Thr Ser Cys Gln Leu Ala Lys Glu Lys Cys Leu
85 90 95
Lys Gly Pro Ser Ser Phe Leu Gln Ser Arg His Glu Arg Leu Asn Ser
100 105 110
Glu Leu Arg Asp Asn Lys Trp Thr Thr Gly Thr Phe Gly Gln Thr Cys
115 120 125
Asn Phe Ile Ser
130

<210> 2470

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2470

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala
1 5 10 15
Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His
20 25 30
Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp

35 40 45
 Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala
 50 55 60
 Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly
 65 70 75 80
 Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp
 85 90 95
 Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys
 100 105 110
 Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys
 115 120 125
 Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val
 130 135 140
 Leu Gly Val Phe
 145

<210> 2471

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2471

Met Ala Lys Thr Glu Ile Glu Leu Gln Tyr Arg Ala Phe Pro Leu Leu
 1 5 10 15
 Gly Leu Lys Ser Arg Cys Leu Trp Lys Gly His Thr Phe Asp Ser Leu
 20 25 30
 Asp Ser Gly Glu Val Thr Lys Val Pro Arg Lys Trp Glu His Lys Trp
 35 40 45

Glu Leu Leu Glu Val Ser Gly Val Pro Gly Gly Pro Ser Thr Glu Ser
 50 55 60
 Gly Val Leu Asn His Gln Ser Glu Leu Pro Glu Cys Gln Arg Glu Leu
 65 70 75 80
 Val Val Ala Gly His Cys Trp Asn Arg Asn Leu Glu Lys Gln Pro Ser
 85 90 95
 Arg Ser Pro Ala Cys Leu Gln Asp Gly Pro Gly Ile Leu Gly Leu Lys
 100 105 110
 Arg Cys Gly Glu Gln
 115

<210> 2472

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2472

Met Pro Leu Gly Cys Arg Glu Glu Ala Gly Gly Val Met Gly Met Gly
 1 5 10 15
 Ser Gly Arg Gly Arg Glu Gly Pro Ser Thr Lys Ala Trp Glu Met Arg
 20 25 30
 Gly Gly Gly Gly Arg Ala Gly Glu Ala Lys Ser Gln Pro Trp Arg Glu
 35 40 45
 His Pro Gly Ala Ser Val Ser Gly Tyr Thr Gln His Phe Ala Thr Cys
 50 55 60
 Gly Pro Ala Gly Ala Glu Asp Gly Gly Glu Glu Ala Ser Ser Pro Cys
 65 70 75 80
 Val Tyr Cys Arg Gln Lys Gly Leu Val Phe Trp Phe Trp Gly Phe Cys

	85	90	95
Phe Val Cys Val Leu Phe Gly Leu Phe Val Phe			
100	105		

<210> 2473

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2473

Met Arg Arg Val Gly Asp Glu Asn Phe Trp Pro Pro Cys Ser Gly Leu			
1	5	10	15
Leu Phe Lys His Leu Lys Ile Ser Arg Ser Phe Thr Leu Gly Gln Met			
20	25	30	
Thr Ser Ala Gly Ile Leu Leu Cys Pro Cys Cys Ala Lys Arg Glu Ser			
35	40	45	
Ile Ser Ser Phe Asp Phe His Tyr Lys Lys Pro Leu Ser Leu Thr Phe			
50	55	60	
Val Leu Cys Arg Cys His Tyr Tyr Tyr Trp Glu Gln Cys Cys Val Ile			
65	70	75	80
Asn Thr Gly Ala Leu Glu Thr Ala Thr Leu Asp Trp Ile Pro Thr Leu			
85	90	95	
Pro Leu Thr Cys Val Ala			
100			

<210> 2474

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2474

Met Leu Cys Gly Glu Pro Ser Arg Gly Phe Ser Pro Ser His Leu His
1 5 10 15
Gln His Ile Pro Asp Leu Ala Ser His Ser Cys Ala Leu Ser Ala Ser
20 25 30
Phe Leu Phe Leu Val Pro Leu Pro Leu Glu Gln Val Asn Tyr Arg Asn
35 40 45
Thr Arg Arg Asp Ser Arg Asn Pro Leu Ser Leu Arg Phe Tyr Leu Gln
50 55 60
Met Ile Gly Ala Leu Phe Leu Gly Thr Ser Ser Ser Ser His Ser Gln
65 70 75 80
Leu Val Thr Leu Glu Leu Pro Val Gly Arg Ala Gln Gly Cys Arg Ala
85 90 95
Leu Gly Gly His Leu Pro His Ser Leu Pro Thr His Gln
100 105

<210> 2475

<211> 515

<212> PRT

<213> Homo sapiens

<400> 2475

Met Ser Ser Glu Met Glu Pro Leu Leu Leu Ala Trp Ser Tyr Phe Arg
1 5 10 15
Arg Arg Lys Phe Gln Leu Cys Ala Asp Leu Cys Thr Gln Met Leu Glu

20	25	30
Lys Ser Pro Tyr Asp Gln Glu Pro Asp Pro Glu Leu Pro Val His Gln		
35	40	45
Ala Ala Trp Ile Leu Lys Ala Arg Ala Leu Thr Glu Met Val Tyr Ile		
50	55	60
Asp Glu Ile Asp Val Asp Gln Glu Gly Ile Ala Glu Met Met Leu Asp		
65	70	75
Glu Asn Ala Ile Ala Gln Val Pro Arg Pro Gly Thr Ser Leu Lys Leu		
85	90	95
Pro Gly Thr Asn Gln Thr Gly Gly Pro Ser Gln Ala Val Arg Pro Ile		
100	105	110
Thr Gln Ala Gly Arg Pro Ile Thr Gly Phe Leu Arg Pro Ser Thr Gln		
115	120	125
Ser Gly Arg Pro Gly Thr Met Glu Gln Ala Ile Arg Thr Pro Arg Thr		
130	135	140
Ala Tyr Thr Ala Arg Pro Ile Thr Ser Ser Ser Gly Arg Phe Val Arg		
145	150	155
Leu Gly Thr Ala Ser Met Leu Thr Ser Pro Asp Gly Pro Phe Ile Asn		
165	170	175
Ile Ser Arg Leu Asn Leu Thr Lys Tyr Ser Gln Lys Pro Lys Leu Ala		
180	185	190
Lys Ala Leu Phe Glu Tyr Ile Phe His His Glu Asn Asp Val Lys Thr		
195	200	205
Ala Leu Asp Leu Ala Ala Leu Ser Thr Glu His Ser Gln Tyr Lys Asp		
210	215	220
Trp Trp Trp Lys Val Gln Ile Gly Lys Cys Tyr Tyr Arg Leu Gly Met		
225	230	235
Tyr Arg Glu Ala Glu Lys Gln Phe Lys Ser Ala Leu Lys Gln Gln Glu		
245	250	255

Met Val Asp Thr Phe Leu Tyr Leu Ala Lys Val Tyr Val Ser Leu Asp
260 265 270

Gln Pro Val Thr Ala Leu Asn Leu Phe Lys Gln Gly Leu Asp Lys Phe
275 280 285

Pro Gly Glu Val Thr Leu Leu Cys Gly Ile Ala Arg Ile Tyr Glu Glu
290 295 300

Met Asn Asn Met Ser Ser Ala Ala Glu Tyr Tyr Lys Glu Val Leu Lys
305 310 315 320

Gln Asp Asn Thr His Val Glu Ala Ile Ala Cys Ile Gly Ser Asn His
325 330 335

Phe Tyr Ser Asp Gln Pro Glu Ile Ala Leu Arg Phe Tyr Arg Arg Leu
340 345 350

Leu Gln Met Gly Ile Tyr Asn Gly Gln Leu Phe Asn Asn Leu Gly Leu
355 360 365

Cys Cys Phe Tyr Ala Gln Gln Tyr Asp Met Thr Leu Thr Ser Phe Glu
370 375 380

Arg Ala Leu Ser Leu Ala Glu Asn Glu Glu Glu Ala Ala Asp Val Trp
385 390 395 400

Tyr Asn Leu Gly His Val Ala Val Gly Ile Gly Asp Thr Asn Leu Ala
405 410 415

His Gln Cys Phe Arg Leu Ala Leu Val Asn Asn Asn Asn His Ala Glu
420 425 430

Ala Tyr Asn Asn Leu Ala Val Leu Glu Met Arg Lys Gly His Val Glu
435 440 445

Gln Ala Arg Ala Leu Leu Gln Thr Ala Ser Ser Leu Ala Pro His Met
450 455 460

Tyr Glu Pro His Phe Asn Phe Ala Thr Ile Ser Asp Lys Ile Gly Asp
465 470 475 480

Leu Gln Arg Ser Tyr Val Ala Ala Gln Lys Ser Glu Ala Ala Phe Pro

	485	490	495
Asp His Val Asp Thr Gln His Leu Ile Lys Gln Leu Arg Gln His Phe			
500	505	510	
Ala Met Leu			
515			

<210> 2476

<211> 153

<212> PRT

<213> Homo sapiens

<400> 2476

Met Asp Gln Asp Ser Val Ser Thr Lys Thr Cys Pro Glu Thr His Arg			
1	5	10	15
Lys Ser Gly Pro Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala			
20	25	30	
Asn Ala His Asp Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser			
35	40	45	
Arg Pro Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala			
50	55	60	
His Asp Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser Arg Pro			
65	70	75	80
Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala His Asp			
85	90	95	
Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser Arg Pro Arg Arg			
100	105	110	
Gln Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala His Asp Thr Val			
115	120	125	

Arg Asp Gly Glu Arg Tyr Gly His Gly Gly His Lys Met Leu Leu Asn

130

135

140

Ile Tyr His Arg Pro Lys Trp Arg Thr

145

150

<210> 2477

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2477

Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg Asn

1

5

10

15

Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro Cys

20

25

30

Gln Pro Pro Val Ala Trp Pro Gly Pro Pro Glu Pro Val Cys Pro Pro

35

40

45

Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly Asp

50

55

60

Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu Met

65

70

75

80

Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser Arg

85

90

95

Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val Ala

100

105

110

Ser Ala Phe Cys Gln His Phe Trp Met Asp Ile Gly Thr Ile Ile Ser

115

120

125

Ile Leu Ile His Gly Asp Phe Lys Thr Thr Ile Lys Leu Ile Gln Ser

130 135 140
Pro Leu Thr Leu Thr Asp Val Gly Ile Pro Leu Leu Glu Arg Glu Leu
145 150 155 160

<210> 2478

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2478

Met Cys Trp Gly Lys His Trp Pro Arg Pro Glu Gly Arg Asn Leu Ala
1 5 10 15
Cys Ser Lys Gly Ser Pro Gly Trp Arg Thr Ala Gly Gln Gly Ser Gly
20 25 30
Ser Tyr Gly Ala Ala Thr Leu Gly Lys Gly Thr Glu Gln Arg Gly Val
35 40 45
Gly Ala Leu Arg Arg Gly Leu Leu Ser Phe Thr Cys Phe Cys Leu Ser
50 55 60
Asn Trp Thr Ser Gly Ala Gly Phe Ser Glu Met Gly Arg Ser Arg Phe
65 70 75 80
Glu Glu Gly Arg Leu Gly Tyr Ser Ser Asp Val Leu Ser Ala Arg Pro
85 90 95
Thr Met Ser Pro Thr Glu Met Leu Arg Ser Arg Ala Leu Asn Leu Gly
100 105 110
Ala Ala Thr Val Leu Arg Arg His Arg Ala Pro Gln Gly Thr Ser Ser
115 120 125
Tyr Gln Glu Gly Arg Arg Ala His Glu Ala Thr Ser Ala Glu Ser Asp
130 135 140

Asp Asp Asn Gly Val Gln Val Leu Ala Ser Leu Ala Val Ser Cys Ala
145 150 155 160
Gln His Ser Arg His Lys Asp Pro Val Gly Thr Gln Leu Gln Gln Ala
165 170 175
Cys Ala Gln Val Pro Thr Ser Arg Ala Pro Leu Trp Pro Cys Pro Ser
180 185 190
His Arg Leu Met His Ser Thr Asp Gly Pro Leu Asp Pro Glu Pro Leu
195 200 205
Ser Thr Leu Leu Pro Ala Ala
210 215

<210> 2479

<211> 485

<212> PRT

<213> Homo sapiens

<400> 2479

Met Pro Trp Arg Thr Glu Ala Ala Arg Gln Met Trp Asp Thr Asn Glu
1 5 10 15
Glu Glu Glu Glu Glu Glu Glu Glu Gly Leu Leu Lys Arg Lys Lys Arg
20 25 30
Arg Arg Gln Lys Ser Arg Lys Tyr Gln Thr Gly Glu Tyr Leu Thr Glu
35 40 45
Gln Glu Asp Glu Gln Arg Arg Lys Gly Arg Ala Asp Leu Lys Ala Arg
50 55 60
Lys Gln Lys Thr Ser Ser Ser Gln Ser Leu Glu His Arg Leu Arg Asn
65 70 75 80
Arg Asn Leu Leu Leu Pro Asn Lys Val Gln Gly Ile Ser Asp Ser Pro

	85		90		95
Asn Gly Phe Leu Pro Asn Asn Leu Glu Glu Pro Ala Cys Leu Glu Asn					
	100		105		110
Ser Glu Lys Pro Ser Gly Lys Arg Lys Cys Lys Thr Lys His Met Ala					
	115		120		125
Thr Val Ser Glu Glu Ala Lys Gly Lys Gly Arg Trp Ser Gln Gln Lys					
	130		135		140
Thr Arg Ser Pro Lys Ser Pro Thr Pro Val Lys Pro Thr Glu Pro Cys					
145		150		155	160
Thr Pro Ser Lys Ser Arg Ser Ala Ser Ser Glu Glu Ala Ser Glu Ser					
	165		170		175
Pro Thr Ala Arg Gln Ile Pro Pro Glu Ala Arg Arg Leu Ile Val Asn					
	180		185		190
Lys Asn Ala Gly Glu Thr Leu Leu Gln Arg Ala Ala Arg Leu Gly Tyr					
	195		200		205
Lys Asp Val Val Leu Tyr Cys Leu Gln Lys Asp Ser Glu Asp Val Asn					
	210		215		220
His Arg Asp Asn Ala Gly Tyr Thr Ala Leu His Glu Ala Cys Ser Arg					
225		230		235	240
Gly Trp Thr Asp Ile Leu Asn Ile Leu Leu Glu His Gly Ala Asn Val					
	245		250		255
Asn Cys Ser Ala Gln Asp Gly Thr Arg Pro Val His Asp Ala Val Val					
	260		265		270
Asn Asp Asn Leu Glu Thr Ile Trp Leu Leu Leu Ser Tyr Gly Ala Asp					
	275		280		285
Pro Thr Leu Ala Thr Tyr Ser Gly Gln Thr Ala Met Lys Leu Ala Ser					
	290		295		300
Ser Asp Thr Met Lys Arg Phe Leu Ser Asp His Leu Ser Asp Leu Gln					
305		310		315	320

Gly Arg Ala Glu Gly Asp Pro Gly Val Ser Trp Asp Phe Tyr Ser Ser
325 330 335
Ser Ala Leu Glu Glu Lys Asp Gly Phe Ala Cys Asp Leu Leu His Asn
340 345 350
Pro Pro Gly Ser Ser Asp Gln Glu Gly Asp Asp Pro Met Glu Glu Asp
355 360 365
Asp Phe Met Phe Glu Leu Ser Asp Lys Pro Leu Leu Pro Cys Tyr Asn
370 375 380
Leu Gln Val Ser Val Ser Arg Gly Pro Cys Asn Trp Phe Leu Phe Ser
385 390 395 400
Asp Val Leu Lys Arg Leu Lys Leu Ser Ser Arg Ile Phe Gln Ala Arg
405 410 415
Phe Pro His Phe Glu Ile Thr Thr Met Pro Lys Ala Glu Phe Tyr Arg
420 425 430
Gln Val Ala Ser Ser Gln Leu Leu Thr Pro Ala Glu Arg Pro Gly Gly
435 440 445
Leu Asp Asp Arg Ser Pro Pro Gly Ser Ser Glu Thr Val Glu Leu Val
450 455 460
Arg Tyr Glu Pro Asp Leu Leu Arg Leu Leu Gly Ser Glu Val Glu Phe
465 470 475 480
Gln Ser Cys Asn Ser
485

<210> 2480

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2480

Met	Phe	Lys	Glu	Gln	Gln	Leu	Gln	Ile	Phe	Asn	Leu	Met	Lys	Phe	Asp
1				5				10					15		
Ser	Tyr	Thr	Arg	Phe	Leu	Lys	Ser	Pro	Leu	Tyr	Gln	Glu	Cys	Ile	Leu
			20					25					30		
Ala	Glu	Val	Glu	Gly	Arg	Ala	Leu	Pro	Asp	Ser	Gln	Gln	Val	Pro	Ser
		35					40						45		
Ser	Pro	Ala	Ser	Lys	His	Ser	Leu	Gly	Ser	Asp	His	Ser	Ser	Val	Ser
	50						55				60				
Thr	Pro	Lys	Lys	Leu	Ser	Gly	Lys	Ser	Lys	Ser	Gly	Arg	Ser	Leu	Asn
	65					70					75				80
Glu	Glu	Leu	Gly	Asp	Glu	Asp	Ser	Glu	Lys	Lys	Arg	Lys	Gly	Ala	Phe
				85						90				95	
Phe	Ser	Trp	Ser	Arg	Thr	Arg	Ser	Thr	Gly	Arg	Ser	Gln	Lys	Lys	Arg
				100					105				110		
Glu	His	Gly	Asp	His	Ala	Asp	Asp	Ala	Leu	His	Ala	Asn	Gly	Gly	Leu
		115						120					125		
Cys	Arg	Arg	Glu	Ser	Gln	Gly	Ser	Val	Ser	Ser	Ala	Gly	Ser	Leu	Asp
		130					135					140			
Leu	Ser	Glu	Ala	Cys	Arg	Thr	Leu	Ala	Pro	Glu	Lys	Asp	Lys	Ala	Thr
	145					150					155				160
Lys	His	Cys	Cys	Ile	His	Leu	Pro	Asp	Gly	Thr	Ser	Cys	Val	Val	Ala
				165						170				175	
Val	Lys	Ala	Gly	Phe	Ser	Ile	Lys	Asp	Ile	Leu	Ser	Gly	Leu	Cys	Glu
			180						185				190		
Arg	His	Gly	Ile	Asn	Gly	Ala	Ala	Ala	Asp	Leu	Phe	Leu	Val	Gly	Gly
		195						200					205		
Asp	Lys	Pro	Leu	Val	Leu	His	Gln	Asp	Ser	Ser	Ile	Leu	Glu	Ser	Arg
		210					215					220			

Asp Leu Arg Leu Glu Lys Arg Thr Leu Phe Arg Leu Asp Leu Val Pro
225 230 235 240
Ile Asn Arg Ser Val Gly Leu Lys Ala Lys Pro Thr Lys Pro Val Thr
245 250 255
Glu Val Leu Arg Pro Val Val Ala Arg Tyr Gly Leu Asp Leu Ser Gly
260 265 270
Leu Leu Val Arg Leu Ser Gly Glu Lys Glu Pro Leu Asp Leu Gly Ala
275 280 285
Pro Ile Ser Ser Leu Asp Gly Gln Arg Val Val Leu Glu Glu Lys Asp
290 295 300
Pro Ser Arg Gly Lys Ala Ser Ala Asp Lys Gln Lys Gly Val Pro Val
305 310 315 320
Lys Gln Asn Thr Ala Val Asn Ser Ser Ser Arg Asn His Ser Ala Thr
325 330 335
Val Ile Pro His Pro Gly Pro Pro Cys Ala Leu Leu Leu Pro Leu Trp
340 345 350
Pro Pro Pro Ala Leu Arg Ser Ala Leu Val Leu Pro Tyr Arg Leu Leu
355 360 365
Ile Thr Val Cys Leu Pro His Ala Pro Trp Arg Gly Leu Ser Arg Pro
370 375 380
Cys Arg Cys Pro Ala Pro Ser Tyr Leu
385 390

<210> 2481

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2481

Met Ser Tyr Leu Gly Ser Leu Phe Val Phe Glu Cys Leu Val Phe Ile
 1 5 10 15
 Glu Pro Tyr Ser Leu Arg Arg Trp Asn Ile Trp Lys Asn Phe Lys Thr
 20 25 30
 Ile Lys Ile Leu Lys Gln Ser Trp Gln Thr Lys Thr Ser Thr Ser Val
 35 40 45
 His Asp Cys Ile Ile Thr Ile Ile Val Pro Leu His Ile Met Phe Phe
 50 55 60
 Phe Leu Arg Gln Lys Arg Cys Leu Lys Thr Lys Asn Cys Ala Glu Lys
 65 70 75 80
 Val Cys Pro Thr Tyr Leu Trp Tyr Met Ile Gly Tyr Ile Lys Gly Arg
 85 90 95
 Tyr Trp Leu Asn
 100

<210> 2482

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2482

Met Ile Leu Ser Leu Phe Tyr Val Leu Leu Cys His Leu Asp Ile Leu
 1 5 10 15
 Phe Gly Asp Thr Ser Ser Lys Ile Phe Cys Ser Phe Trp Ala Val Val
 20 25 30
 Thr Leu Val Leu Ser Phe Asp Ser Pro Phe Tyr Ile Leu Asp Thr Ser
 35 40 45

Phe Ile Arg Tyr Pro Phe Cys Lys Ala Cys Asn Leu Ser Phe Tyr Phe
 50 55 60
 Phe Asn Ser Ile Phe Gln Lys Gln Lys Phe Ser Met Leu Met Lys Leu
 65 70 75 80
 Ser Leu Ser Ser Phe Ser Phe Met Tyr Cys Val Phe Gly Ile Val Ser
 85 90 95
 Lys Thr Ser Leu Pro Glu Met Arg Ser Cys Met Val
 100 105

<210> 2483

<211> 205

<212> PRT

<213> Homo sapiens

<400> 2483

Met Met Ser Ser Ser Thr Ala His Trp His Gln Trp Ser Val Ile Val
 1 5 10 15
 Ser Asn Arg Gly Ala Trp Gln Gly Lys Ala Phe Leu Pro Pro Ser Met
 20 25 30
 Pro Val Ser Glu Gly Leu Asn Ile Gln Asp Ser Ser Pro Gly Trp Gly
 35 40 45
 Pro Glu Pro Trp Tyr Trp Thr Leu Thr Arg Thr Pro Met Cys Gln Ser
 50 55 60
 Thr Ser His His Ala His Thr Gln Gly Leu Gly Leu Ser Lys Cys Pro
 65 70 75 80
 Ala Ala Pro Glu Val Ser Ser Pro Asp Leu Gly Ser Gly Ser Ala Ala
 85 90 95
 Asp Lys Ser Pro Ala Ser Arg Pro Ala Trp Thr Lys Pro Glu Leu Phe

100	105	110	
Arg Ser Leu Lys Arg Leu Leu His Ser Pro Thr Pro Arg Thr Asp Gln			
115	120	125	
Arg Gly Arg Gly Cys Arg Trp Arg Glu Arg Arg Val Glu Ser Gly Ala			
130	135	140	
Arg Gly Trp Lys Arg Leu Cys Arg Leu Cys Cys Pro Cys Arg Trp Ser			
145	150	155	160
Trp Phe Thr Leu Ser Pro Ala Phe Pro Pro Pro Glu Thr Ala His His			
165	170	175	
Cys Gln Ile Glu Ser Lys Asn Pro Thr Pro Asn Lys Asp Glu Ala Thr			
180	185	190	
Leu Ala Phe Thr Pro Arg Phe Phe Arg Phe Leu Gly Leu			
195	200	205	

<210> 2484

<211> 259

<212> PRT

<213> Homo sapiens

<400> 2484

Met Lys Asp Leu Gly Asn Pro Val Leu Asp Glu Glu Gly Val Ala Gln
1 5 10 15
Arg Glu Glu Ser Ala Gln Gly Thr Pro Ile Leu Gly Asp Gly Ala Thr
20 25 30
Gly Ala Ser Pro Arg Leu Lys Gly Glu Arg Gly Ser Arg Pro Ala Cys
35 40 45
Arg Ser Gly Arg Arg Ile Gly Leu Pro Ser Gly Trp Gly Gly Ser Lys
50 55 60

Pro Thr Ile Ala Ala Leu Gly Gly Gly Gly Ala Leu Gln Gly Pro Ala
65 70 75 80
Ala Pro Ser Gly Pro Leu Pro Pro His Arg Arg Phe Tyr Asp Ser Gly
85 90 95
Ala Ile Met Leu Arg Asp Glu Ala Thr Ile Leu Thr Gly Met Leu Ile
100 105 110
Gly Leu Ser Ala Ile Asp Phe Ser Phe Cys Leu Lys Gly Glu Val Leu
115 120 125
Asp Gly Lys Thr Pro Val Val Ile Asp Tyr Thr Pro Tyr Leu Lys Phe
130 135 140
Thr Gln Ser Tyr Asp Tyr Leu Thr Asp Glu Glu Glu Arg His Ser Ala
145 150 155 160
Glu Ser Ser Thr Ser Glu Asp Asn Ser Pro Glu His Pro Tyr Leu Pro
165 170 175
Leu Val Thr Asp Glu Asp Ser Trp Tyr Ser Lys Trp His Lys Met Glu
180 185 190
Gln Lys Phe Arg Ile Val Tyr Ala Gln Lys Gly Tyr Leu Glu Glu Leu
195 200 205
Val Arg Leu Arg Glu Ser Gln Leu Lys Asp Leu Glu Ala Glu Asn Arg
210 215 220
Arg Leu Gln Leu Gln Leu Glu Glu Ala Ala Ala Gln Asn Gln Arg Glu
225 230 235 240
Lys Arg Glu Leu Glu Gly Val Ile Leu Glu Leu Gln Glu Gln Leu Ser
245 250 255
Asp Pro Gln

<210> 2485

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2485

Met His Gly Ser Lys Trp Leu Asp Ser Trp Val Gly Trp Gly Ser Gln

1 5 10 15

Ser Arg Leu Pro Glu Gly Leu Glu Val Thr Pro Pro Gly Gly Asp Gly

20 25 30

Ser Ser Gln Val Gly Cys His Gln Ser Arg Gln His Cys Leu Leu Gly

35 40 45

Thr Pro Gly Glu Ala Asp Arg Val Ser Gly Phe Gln Leu Gly Gly Ser

50 55 60

Pro Ala Glu Asn Pro Val Lys Pro Ala Phe His Ser Ser Pro Val Cys

65 70 75 80

Pro Glu Pro Gly Leu Arg Ala Ala Leu Cys Met Pro Ala Leu Pro Thr

85 90 95

Trp Gln Ser Ser Gly Gly Arg Thr Pro Arg Leu Ser Gly Asp Ser Gln

100 105 110

Ala Asn Val Ser Ile Pro Gly Ser Ala Leu Ser Cys His Glu Phe Arg

115 120 125

Lys Ala Glu Ala Ala Gln Gln Met Gly Thr Arg Gly Arg Thr Ala Ile

130 135 140

His Ser Leu Ser Ser His Pro Gln Ala Cys Arg Ala Pro Gly Leu Trp

145 150 155 160

Cys

<210> 2486

<211> 423

<212> PRT

<213> Homo sapiens

<400> 2486

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Met Lys Arg Asn Gly Ser Arg Asn Cys Leu Asn Arg Arg Ser Arg Phe
  1             5             10             15
Gly Ser Arg Glu Arg Asp Trp Leu Arg Glu Asp Val Lys Arg Gly Cys
             20             25             30
Val Tyr Leu Tyr Gly Ala Asp Thr Thr Thr Ala Thr Thr Thr Thr Thr
             35             40             45
Thr Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Leu His Leu
             50             55             60
Val Leu Cys Thr Val Glu Thr Pro Ala Ser Glu Ile Cys Ala Gly Glu
             65             70             75             80
Gly Arg Glu Ser Leu Tyr Leu Gln Leu His Gly Asp Leu Val Arg Arg
             85             90             95
Leu Glu Pro Thr Glu Arg Pro Leu Gln Ile Val Tyr Asp Tyr Leu Ser
             100            105            110
Arg Leu Gly Phe Asp Asp Pro Val Arg Ile Gln Glu Glu Ala Thr Asn
             115            120            125
Pro Asp Leu Gly Cys Met Ile Arg Phe Tyr Gly Glu Lys Pro Cys His
             130            135            140
Met Asp Arg Leu Asp Arg Ile Leu Leu Ser Gly Ile Tyr Asn Val Arg
             145            150            155            160
Lys Gly Lys Thr Gln Leu His Lys Trp Ala Glu Arg Leu Val Val Leu
             165            170            175
Cys Gly Thr Cys Leu Ile Val Ser Ser Val Lys Asp Cys Gln Thr Gly

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180	185	190
Lys Met His Ile Leu Pro Leu Val Gly Gly Lys Ile Glu Glu Val Lys		
195	200	205
Arg Arg Gln Tyr Ser Leu Ala Phe Ser Ser Ala Gly Ala Gln Ala Gln		
210	215	220
Thr Tyr His Val Ser Phe Glu Thr Leu Ala Glu Tyr Gln Arg Trp Gln		
225	230	235
Arg Gln Ala Ser Lys Val Val Ser Gln Arg Ile Ser Thr Val Asp Leu		
245	250	255
Ser Cys Tyr Ser Leu Glu Glu Val Pro Glu His Leu Phe Tyr Ser Gln		
260	265	270
Asp Ile Thr Tyr Leu Asn Leu Arg His Asn Phe Met Gln Leu Glu Arg		
275	280	285
Pro Gly Gly Leu Asp Thr Leu Tyr Lys Phe Ser Gln Leu Lys Gly Leu		
290	295	300
Asn Leu Ser His Asn Lys Leu Gly Leu Phe Pro Ile Leu Leu Cys Glu		
305	310	315
Ile Ser Thr Leu Thr Glu Leu Asn Leu Ser Cys Asn Gly Phe His Asp		
325	330	335
Leu Pro Ser Gln Ile Gly Asn Leu Leu Asn Leu Gln Thr Leu Cys Leu		
340	345	350
Asp Gly Asn Phe Leu Thr Thr Leu Pro Glu Glu Leu Gly Asn Leu Gln		
355	360	365
Gln Leu Ser Ser Leu Gly Ile Ser Phe Asn Asn Phe Ser Gln Ile Pro		
370	375	380
Glu Val Tyr Glu Lys Leu Thr Met Leu Asp Arg Val Val Met Ala Gly		
385	390	395
Asn Cys Leu Glu Val Leu Asn Leu Gly Val Leu Asn Arg Met Asn His		
405	410	415

Ile Lys His Val Asp Leu Arg

420

<210> 2487

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2487

Met Lys Ser Tyr Pro Ser Cys His Trp Trp Ile Met Phe Leu Val Ser

1

5

10

15

Cys Leu Gly Thr Leu Thr Pro Gly His Glu Glu Phe Phe Phe Phe Leu

20

25

30

Phe Leu Thr His Ile Leu Thr Leu Ser Pro Arg Leu Gly Cys Ser Gly

35

40

45

Thr Ile Ser Thr His Cys Asn Leu Cys Leu Leu Gly Ser Ser Asp Ser

50

55

60

Cys Ala Ser Val Ser Gln Val Ala Gly Thr Thr Gly Val His His His

65

70

75

80

Ser Gln Pro Ile Phe Phe Leu Phe Phe Ile Phe Ser Arg Val Gly Ile

85

90

95

Ser Pro Tyr Arg Leu Gly Trp Ser

100

<210> 2488

<211> 879

<212> PRT

<213> Homo sapiens

<400> 2488

Met Asn Pro Ile Thr Gln Ser Gln Phe Val Pro Leu Gly Glu Val Leu
1 5 10 15
Cys Cys Ala Ile Ser Asp Met Asn Thr Ala Gln Ile Val Val Thr Gln
20 25 30
Glu Ser Leu Leu Glu Arg Leu Met Lys His Tyr Pro Gly Ile Ala Ile
35 40 45
Pro Ser Glu Asp Ile Leu Tyr Thr Thr Leu Gly Thr Leu Ile Lys Glu
50 55 60
Arg Lys Ile Tyr His Thr Gly Glu Gly Tyr Phe Ile Val Thr Pro Gln
65 70 75 80
Thr Tyr Phe Ile Thr Asn Thr Thr Thr Gln Glu Asn Lys Arg Met Leu
85 90 95
Pro Ser Asp Glu Ser Arg Leu Met Pro Ala Ser Met Thr Tyr Leu Val
100 105 110
Ser Met Glu Ser Cys Ala Glu Ser Ala Gln Glu Asn Ala Ala Pro Ile
115 120 125
Ser His Cys Gln Ser Cys Gln Cys Phe Arg Asp Met His Thr Gln Asp
130 135 140
Val Gln Glu Ala Pro Val Ala Ala Glu Val Thr Arg Lys Ser His Arg
145 150 155 160
Gly Leu Gly Glu Ser Val Ser Trp Val Gln Asn Gly Ala Val Ser Val
165 170 175
Ser Ala Glu His His Ile Cys Glu Ser Thr Lys Pro Leu Pro Tyr Thr
180 185 190
Arg Asp Lys Glu Lys Gly Lys Lys Phe Gly Phe Ser Leu Leu Trp Arg
195 200 205

Ser Leu Ser Arg Lys Glu Lys Pro Lys Thr Glu His Ser Ser Phe Ser
210 215 220
Ala Gln Phe Pro Pro Glu Glu Trp Pro Val Arg Asp Glu Asp Asp Leu
225 230 235 240
Asp Asn Ile Pro Arg Asp Val Glu His Glu Ile Ile Lys Arg Ile Asn
245 250 255
Pro Ile Leu Thr Val Asp Asn Leu Ile Lys His Thr Val Leu Met Gln
260 265 270
Lys Tyr Glu Glu Gln Lys Lys Tyr Asn Ser Gln Gly Thr Ser Thr Asp
275 280 285
Met Leu Thr Ile Gly His Lys Tyr Pro Ser Lys Glu Gly Val Lys Lys
290 295 300
Arg Gln Gly Leu Ser Ala Lys Pro Gln Gly Gln Gly His Ser Arg Arg
305 310 315 320
Asp Arg His Lys Ala Arg Asn Gln Gly Ser Glu Phe Gln Pro Gly Ser
325 330 335
Ile Arg Leu Glu Lys His Pro Lys Leu Pro Ala Thr Gln Pro Ile Pro
340 345 350
Arg Ile Lys Ser Pro Asn Glu Met Val Gly Gln Lys Pro Leu Gly Glu
355 360 365
Ile Thr Thr Val Leu Gly Ser His Leu Ile Tyr Lys Lys Arg Ile Ser
370 375 380
Asn Pro Phe Gln Gly Leu Ser His Arg Gly Ser Thr Ile Ser Lys Gly
385 390 395 400
His Lys Ile Gln Lys Thr Ser Asp Leu Lys Pro Ser Gln Thr Gly Pro
405 410 415
Lys Glu Lys Pro Phe Gln Lys Pro Arg Ser Leu Asp Ser Ser Arg Ile
420 425 430
Phe Asp Gly Lys Ala Lys Glu Pro Tyr Ala Glu Gln Pro Asn Asp Lys

435	440	445
Met Glu Ala Glu Ser Ile Tyr Ile Asn Asp Pro Thr Val Lys Pro Ile		
450	455	460
Asn Asp Asp Phe Arg Gly His Leu Phe Ser His Pro Gln Gln Ser Met		
465	470	475
Leu Gln Asn Asp Gly Lys Cys Cys Pro Phe Met Glu Ser Met Leu Arg		
485	490	495
Tyr Asp Val Tyr Gly Gly Glu Asn Glu Val Ile Pro Glu Val Leu Arg		
500	505	510
Lys Ser His Ser His Phe Asp Lys Leu Gly Glu Thr Lys Gln Thr Pro		
515	520	525
His Ser Leu Pro Ser Arg Gly Ala Ser Phe Ser Asp Arg Thr Pro Ser		
530	535	540
Ala Cys Arg Leu Val Asp Asn Thr Ile His Gln Phe Gln Asn Leu Gly		
545	550	555
Leu Leu Asp Tyr Pro Val Gly Val Asn Pro Leu Arg Gln Ala Ala Arg		
565	570	575
Gln Asp Lys Asp Ser Glu Glu Leu Leu Arg Lys Gly Phe Val Gln Asp		
580	585	590
Ala Glu Thr Thr Ser Leu Glu Asn Glu Gln Leu Ser Asn Asp Asp Gln		
595	600	605
Ala Leu Tyr Gln Asn Glu Val Glu Asp Asp Asp Gly Ala Cys Ser Ser		
610	615	620
Leu Tyr Leu Glu Glu Asp Asp Ile Ser Glu Asn Asp Asp Leu Arg Gln		
625	630	635
Met Leu Pro Gly His Ser Gln Tyr Ser Phe Thr Gly Gly Ser Gln Gly		
645	650	655
Asn His Leu Gly Lys Gln Lys Val Ile Glu Arg Ser Leu Thr Glu Tyr		
660	665	670

Asn Ser Thr Met Glu Arg Val Glu Ser Gln Val Leu Lys Arg Asn Glu
675 680 685

Cys Tyr Lys Pro Thr Gly Leu His Ala Thr Pro Gly Glu Ser Gln Glu
690 695 700

Pro Asn Leu Ser Ala Glu Ser Cys Gly Leu Asn Ser Gly Ala Gln Phe
705 710 715 720

Gly Phe Asn Tyr Glu Glu Glu Pro Ser Val Ala Lys Cys Val Gln Ala
725 730 735

Ser Ala Pro Ala Asp Glu Arg Ile Phe Asp Tyr Tyr Ser Ala Arg Lys
740 745 750

Ala Ser Phe Glu Ala Glu Val Ile Gln Asp Thr Ile Gly Asp Thr Gly
755 760 765

Lys Lys Pro Ala Ser Trp Ser Gln Ser Pro Gln Asn Gln Glu Met Arg
770 775 780

Lys His Phe Pro Gln Lys Phe Gln Leu Phe Asn Thr Ser His Met Pro
785 790 795 800

Val Leu Ala Gln Asp Val Gln Tyr Glu His Ser His Leu Glu Gly Thr
805 810 815

Glu Asn His Ser Met Ala Gly Asp Ser Gly Ile Asp Ser Pro Arg Thr
820 825 830

Gln Ser Leu Gly Ser Asn Asn Ser Val Ile Leu Asp Gly Leu Lys Arg
835 840 845

Arg Gln Asn Phe Leu Gln Asn Val Glu Gly Thr Lys Ser Ser Gln Pro
850 855 860

Leu Thr Ser Asn Ser Leu Leu Pro Leu Thr Pro Val Ile Asn Val
865 870 875

<210> 2489

<211> 636

<212> PRT

<213> Homo sapiens

<400> 2489

Met Phe Arg Lys Lys Lys Lys Lys Arg Pro Glu Ile Ser Ala Pro Gln
1 5 10 15
Asn Phe Gln His Arg Val His Thr Ser Phe Asp Pro Lys Glu Gly Lys
20 25 30
Phe Val Gly Leu Pro Pro Gln Trp Gln Asn Ile Leu Asp Thr Leu Arg
35 40 45
Arg Pro Lys Pro Val Val Asp Pro Ser Arg Ile Ala Arg Val Gln Leu
50 55 60
Gln Pro Met Lys Thr Val Val Arg Gly Ser Ala Met Pro Val Asp Gly
65 70 75 80
Tyr Ile Ser Gly Leu Leu Asn Asp Ile Gln Lys Leu Ser Val Ile Ser
85 90 95
Ser Asn Thr Leu Arg Gly Arg Ser Pro Thr Ser Arg Arg Arg Ala Gln
100 105 110
Ser Leu Gly Leu Leu Gly Asp Glu His Trp Ala Thr Asp Pro Asp Met
115 120 125
Tyr Leu Gln Ser Pro Gln Ser Glu Arg Thr Asp Pro His Gly Leu Tyr
130 135 140
Leu Ser Cys Asn Gly Gly Thr Pro Ala Gly His Lys Gln Met Pro Trp
145 150 155 160
Pro Glu Pro Gln Ser Pro Arg Val Leu Pro Asn Gly Leu Ala Ala Lys
165 170 175
Ala Gln Ser Leu Gly Pro Ala Glu Phe Gln Gly Ala Ser Gln Arg Cys
180 185 190

Leu Gln Leu Gly Ala Cys Leu Gln Ser Ser Pro Pro Gly Ala Ser Pro
195 200 205

Pro Thr Gly Thr Asn Arg His Gly Met Lys Ala Ala Lys His Gly Ser
210 215 220

Glu Glu Ala Arg Pro Gln Ser Cys Leu Val Gly Ser Ala Thr Gly Arg
225 230 235 240

Pro Gly Gly Glu Gly Ser Pro Ser Pro Lys Thr Arg Glu Ser Ser Leu
245 250 255

Lys Arg Arg Leu Phe Arg Ser Met Phe Leu Ser Thr Ala Ala Thr Ala
260 265 270

Pro Pro Ser Ser Ser Lys Pro Gly Pro Pro Pro Gln Ser Lys Pro Asn
275 280 285

Ser Ser Phe Arg Pro Pro Gln Lys Asp Asn Pro Pro Ser Leu Val Ala
290 295 300

Lys Ala Gln Ser Leu Pro Ser Asp Gln Pro Val Gly Thr Phe Ser Pro
305 310 315 320

Leu Thr Thr Ser Asp Thr Ser Ser Pro Gln Lys Ser Leu Arg Thr Ala
325 330 335

Pro Ala Thr Gly Gln Leu Pro Gly Arg Ser Ser Pro Ala Gly Ser Pro
340 345 350

Arg Thr Trp His Ala Gln Ile Ser Thr Ser Asn Leu Tyr Leu Pro Gln
355 360 365

Asp Pro Thr Val Ala Lys Gly Ala Leu Ala Gly Glu Gly Thr Gly Val
370 375 380

Val Thr His Glu Gln Phe Lys Ala Ala Leu Arg Met Val Val Asp Gln
385 390 395 400

Gly Asp Pro Arg Leu Leu Leu Asp Ser Tyr Val Lys Ile Gly Glu Gly
405 410 415

Ser Thr Gly Ile Val Cys Leu Ala Arg Glu Lys His Ser Gly Arg Gln

420 425 430
Val Ala Val Lys Met Met Asp Leu Arg Lys Gln Gln Arg Arg Glu Leu
435 440 445
Leu Phe Asn Glu Val Val Ile Met Arg Asp Tyr Gln His Phe Asn Val
450 455 460
Val Glu Met Tyr Lys Ser Tyr Leu Val Gly Glu Glu Leu Trp Val Leu
465 470 475 480
Met Glu Phe Leu Gln Gly Gly Ala Leu Thr Asp Ile Val Ser Gln Val
485 490 495
Arg Leu Asn Glu Glu Gln Ile Ala Thr Val Cys Glu Ala Val Leu Gln
500 505 510
Ala Leu Ala Tyr Leu His Ala Gln Gly Val Ile His Arg Asp Ile Lys
515 520 525
Ser Asp Ser Ile Leu Leu Thr Leu Asp Gly Arg Val Lys Leu Ser Asp
530 535 540
Phe Gly Phe Cys Ala Gln Ile Ser Lys Asp Val Pro Lys Arg Lys Ser
545 550 555 560
Leu Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ser Arg Ser
565 570 575
Leu Tyr Ala Thr Glu Val Ser Pro Val Leu Arg Asp Phe Leu Glu Arg
580 585 590
Met Leu Val Arg Asp Pro Gln Glu Arg Ala Thr Ala Gln Glu Leu Leu
595 600 605
Asp His Pro Phe Leu Leu Gln Thr Gly Leu Pro Glu Cys Leu Val Pro
610 615 620
Leu Ile Gln Leu Tyr Arg Lys Gln Thr Ser Thr Cys
625 630 635

<210> 2490

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2490

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Met His Ala Asp Glu Tyr Ala Ser Trp Val Phe Thr Arg Ser Ser Trp
  1           5           10           15
Glu Ala Ser Ser Val Ser Gln Ala His Arg Leu Cys Ala Arg Glu Gly
           20           25           30
Glu His Leu Ser Leu Gly Thr Ala Phe Val Pro Ala Tyr Arg Pro Pro
           35           40           45
Gln Glu Pro Ala Ser Trp Leu Pro Ser His Arg Pro Pro Ala Gly Leu
           50           55           60
Thr Tyr Ala Ser Phe Cys Arg Arg Gln Ala His Phe Ser Pro Val Thr
           65           70           75           80
Asn Met Glu Leu Arg Val Lys Glu Gly Ser Cys Thr His Leu Leu Ile
           85           90           95
His Leu Phe Thr His Leu Leu Thr His Gln Ser Phe Leu Gln Gln
           100          105          110

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<210> 2491

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2491

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Met Leu Ala Pro Gly Ser Ser Pro Gly Gln Arg Gly Arg Leu Ala Leu

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1	5	10	15
Gln Trp Arg Gln Val Ser Trp Ile Thr Cys Trp Ile Ala Leu Tyr Ala			
20	25	30	
Val Glu Ala Leu Pro Thr Cys Pro Phe Ser Cys Lys Cys Asp Ser Arg			
35	40	45	
Ser Leu Glu Val Asp Cys Ser Gly Leu Gly Leu Thr Thr Val Pro Pro			
50	55	60	
Asp Val Pro Ala Ala Thr Arg Thr Leu Leu Leu Leu Asn Asn Lys Leu			
65	70	75	80
Ser Ala Leu Pro Ser Trp Ala Phe Ala Asn Leu Ser Ser Leu Gln Arg			
85	90	95	
Leu Asp Leu Ser Asn Asn Phe Leu Asp Arg Leu Pro Arg Ser Ile Phe			
100	105	110	
Gly Asp Leu Thr Asn Leu Thr Glu Leu Gln Leu Arg Asn Asn Ser Ile			
115	120	125	
Arg Thr Leu Asp Arg Asp Leu Leu Arg His Ser Pro Leu Leu Arg His			
130	135	140	
Leu Asp Leu Ser Ile Asn Gly Leu Ala Gln Leu Pro Pro Gly Leu Phe			
145	150	155	160
Asp Gly Leu Leu Ala Leu Arg Ser Leu Ser Leu Arg Ser Asn Arg Leu			
165	170	175	
Gln Asn Leu Asp Arg Leu Thr Phe Glu Pro Leu Ala Asn Leu Gln Leu			
180	185	190	
Leu Gln Val Gly Asp Asn Pro Trp Glu Cys Asp Cys Asn Leu Arg Glu			
195	200	205	
Phe Lys His Trp Met Glu Trp Phe Ser Tyr Arg Gly Gly Arg Leu Asp			
210	215	220	
Gln Leu Ala Cys Thr Leu Pro Lys Glu Leu Arg Gly Lys Asp Met Arg			
225	230	235	240

Met Val Pro Met Glu Met Phe Asn Tyr Cys Ser Gln Leu Glu Asp Glu
 245 250 255
 Asn Ser Ser Ala Gly Leu Asp Ile Pro Gly Pro Pro Cys Thr Lys Ala
 260 265 270
 Ser Pro Glu Pro Ala Lys Pro Lys Pro Gly Ala Glu Pro Glu Pro Glu
 275 280 285
 Pro Ser Thr Ala Cys Pro Gln Lys Gln Arg His Arg Pro Ala Ser Val
 290 295 300
 Arg Arg Ala Met Gly Thr Val Ile Ile Ala Gly Val Val Cys Gly Val
 305 310 315 320
 Val Cys Ile Met Met Val Val Ala Ala Ala Tyr Gly Cys Ile Tyr Ala
 325 330 335
 Ser Leu Met Ala Lys Tyr His Arg Glu Leu Lys Lys Arg Gln Pro Leu
 340 345 350
 Met Gly Asp Pro Glu Gly Glu His Glu Asp Gln Lys Gln Ile Ser Ser
 355 360 365
 Val Ala
 370

<210> 2492

<211> 158

<212> PRT

<213> Homo sapiens

<400> 2492

Met Glu Lys Gly Leu Arg Arg Thr Gln Gln Cys Gly Ser Ala Thr Ala
 1 5 10 15
 Gly Asn His Glu Thr Glu Thr Ala Arg Trp Arg Gln Pro Asp Thr Lys

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Leu Leu Gly Ser Val Gly Val Gly Pro Thr Asp Pro Asp His Leu Ala
 35 40 45
 Pro Trp Leu Gln Pro Pro Phe Gln Glu Ser Glu Arg Phe Cys His Thr
 50 55 60
 Gly Ile Pro Gly Ala Thr Gly Val Leu Arg Lys Lys Gln Lys Gln Lys
 65 70 75 80
 Leu Leu Gln Leu Ala Gln Cys Leu Pro Lys Gln Pro Pro Cys Phe Val
 85 90 95
 Leu Glu Thr Gln Asn His Gly Gly Ile Asp Thr Trp Ser Trp Ser Ala
 100 105 110
 Ser Cys Lys Asp Arg Gly Lys Ser Thr Val Ser Glu Pro Glu Cys Thr
 115 120 125
 Val Pro Pro Gly Thr Leu Ser His Ser Phe Pro Trp Leu Gly Lys Gly
 130 135 140
 Asp Pro Pro Thr Pro Cys Thr Ser Gln Val Arg Arg
 145 150 155

<210> 2494

<211> 919

<212> PRT

<213> Homo sapiens

<400> 2494

Met Ala Pro Ser Arg Phe Arg Thr Gln Leu Glu Leu Val Ser Asn Val
 1 5 10 15
 Leu Ile Phe Ser Cys Thr Asn Ile Val Gly Val Cys Thr His Tyr Pro
 20 25 30
 Ala Glu Val Ser Gln Arg Gln Ala Phe Gln Glu Thr Arg Glu Cys Ile

35	40	45
Gln Ala Arg Leu His Ser Gln Arg Glu Asn Gln Gln Gln Glu Arg Leu		
50	55	60
Leu Leu Ser Val Leu Pro Arg His Val Ala Met Glu Met Lys Ala Asp		
65	70	75
Ile Asn Ala Lys Gln Glu Asp Met Met Phe His Lys Ile Tyr Ile Gln		
85	90	95
Lys His Asp Asn Val Ser Ile Leu Phe Ala Asp Ile Glu Gly Phe Thr		
100	105	110
Ser Leu Ala Ser Gln Cys Thr Ala Gln Glu Leu Val Met Thr Leu Asn		
115	120	125
Glu Leu Phe Ala Arg Phe Asp Lys Leu Ala Ala Glu Asn His Cys Leu		
130	135	140
Arg Ile Lys Ile Leu Gly Asp Cys Tyr Tyr Cys Val Ser Gly Leu Pro		
145	150	155
Glu Ala Arg Ala Asp His Ala His Cys Cys Val Glu Met Gly Met Asp		
165	170	175
Met Ile Glu Ala Ile Ser Leu Val Arg Glu Val Thr Gly Val Asn Val		
180	185	190
Asn Met Arg Val Gly Ile His Ser Gly Arg Val His Cys Gly Val Leu		
195	200	205
Gly Leu Arg Lys Trp Gln Phe Asp Val Trp Ser Asn Asp Val Thr Leu		
210	215	220
Ala Asn His Met Glu Ala Gly Gly Lys Ala Gly Arg Ile His Ile Thr		
225	230	235
Lys Ala Thr Leu Asn Tyr Leu Asn Gly Asp Tyr Glu Val Glu Pro Gly		
245	250	255
Cys Gly Gly Glu Arg Asn Ala Tyr Leu Lys Glu His Ser Ile Glu Thr		
260	265	270

Phe Leu Ile Leu Arg Cys Thr Gln Lys Arg Lys Glu Glu Lys Ala Met
275 280 285
Ile Ala Lys Met Asn Arg Gln Arg Thr Asn Ser Ile Gly His Asn Pro
290 295 300
Pro His Trp Gly Ala Glu Arg Pro Phe Tyr Asn His Leu Gly Gly Asn
305 310 315 320
Gln Val Ser Lys Glu Met Lys Arg Met Gly Phe Glu Asp Pro Lys Asp
325 330 335
Lys Asn Ala Gln Glu Ser Ala Asn Pro Glu Asp Glu Val Asp Glu Phe
340 345 350
Leu Gly Arg Ala Ile Asp Ala Arg Ser Ile Asp Arg Leu Arg Ser Glu
355 360 365
His Val Arg Lys Phe Leu Leu Thr Phe Arg Glu Pro Asp Leu Glu Lys
370 375 380
Lys Tyr Ser Lys Gln Val Asp Asp Arg Phe Gly Ala Tyr Val Ala Cys
385 390 395 400
Ala Ser Leu Val Phe Leu Phe Ile Cys Phe Val Gln Ile Thr Ile Val
405 410 415
Pro His Ser Ile Phe Met Leu Ser Phe Tyr Leu Thr Cys Ser Leu Leu
420 425 430
Leu Thr Leu Val Val Phe Val Ser Val Ile Tyr Ser Cys Val Lys Leu
435 440 445
Phe Pro Ser Pro Leu Gln Thr Leu Ser Arg Lys Ile Val Arg Ser Lys
450 455 460
Met Asn Ser Thr Leu Val Gly Val Phe Thr Ile Thr Leu Val Phe Leu
465 470 475 480
Ala Ala Phe Val Asn Met Phe Thr Cys Asn Ser Arg Asp Leu Leu Gly
485 490 495
Cys Leu Ala Gln Glu His Asn Ile Ser Ala Ser Gln Val Asn Ala Cys

500 505 510
His Val Ala Glu Ser Ala Val Asn Tyr Ser Leu Gly Asp Glu Gln Gly
515 520 525
Phe Cys Gly Ser Pro Trp Pro Asn Cys Asn Phe Pro Glu Tyr Phe Thr
530 535 540
Tyr Ser Val Leu Leu Ser Leu Leu Ala Cys Ser Val Phe Leu Gln Ile
545 550 555 560
Ser Cys Ile Gly Lys Leu Val Leu Met Leu Ala Ile Glu Leu Ile Tyr
565 570 575
Val Leu Ile Val Glu Val Pro Gly Val Thr Leu Phe Asp Asn Ala Asp
580 585 590
Leu Leu Val Thr Ala Asn Ala Ile Asp Phe Phe Asn Asn Gly Thr Ser
595 600 605
Gln Trp Ser Leu Cys Glu Asn Leu Arg His Arg Arg Met Glu Ala Gly
610 615 620
Thr Tyr Phe Pro Ser Gly Val Lys Glu Gln Ser Pro Glu His Ala Thr
625 630 635 640
Lys Val Ala Leu Lys Val Val Thr Pro Ile Ile Ile Ser Val Phe Val
645 650 655
Leu Ala Leu Tyr Leu His Ala Gln Gln Val Glu Ser Thr Ala Arg Leu
660 665 670
Asp Phe Leu Trp Lys Leu Gln Ala Thr Glu Glu Lys Glu Glu Met Glu
675 680 685
Glu Leu Gln Ala Tyr Asn Arg Arg Leu Leu His Asn Ile Leu Pro Lys
690 695 700
Asp Val Ala Ala His Phe Leu Ala Arg Glu Arg Arg Asn Asp Glu Leu
705 710 715 720
Tyr Tyr Gln Ser Cys Glu Cys Val Ala Val Met Phe Ala Ser Ile Ala
725 730 735

Asn Phe Ser Glu Phe Tyr Val Glu Leu Glu Ala Asn Asn Glu Gly Val
740 745 750
Glu Cys Leu Arg Leu Leu Asn Glu Ile Ile Ala Asp Phe Asp Glu Ile
755 760 765
Ile Ser Glu Asp Arg Phe Arg Gln Leu Glu Lys Ile Lys Thr Ile Gly
770 775 780
Ser Thr Tyr Met Ala Ala Ser Gly Leu Asn Asp Ser Thr Tyr Asp Lys
785 790 795 800
Val Gly Lys Thr His Ile Lys Ala Leu Ala Asp Phe Ala Met Lys Leu
805 810 815
Met Asp Gln Met Lys Tyr Ile Asn Glu His Ser Phe Asn Asn Phe Gln
820 825 830
Met Lys Ile Gly Leu Asn Ile Gly Pro Val Val Ala Gly Val Ile Gly
835 840 845
Ala Arg Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala
850 855 860
Ser Arg Met Asp Ser Thr Gly Val Pro Asp Arg Ile Gln Val Thr Thr
865 870 875 880
Asp Met Tyr Gln Val Leu Ala Ala Asn Thr Tyr Gln Leu Glu Cys Arg
885 890 895
Gly Val Val Lys Val Lys Gly Lys Gly Glu Met Met Thr Tyr Phe Leu
900 905 910
Asn Gly Gly Pro Pro Leu Ser
915

<210> 2495

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2495

Met	Gly	Tyr	Val	Arg	Glu	Tyr	Ile	Leu	Trp	Ala	Ala	Ser	Lys	Ser	Gln
1				5				10					15		
Leu	Leu	Ala	His	Gln	Phe	Ile	Trp	Asn	Met	Lys	Thr	Asn	Ile	Tyr	Leu
			20					25					30		
Asp	Glu	Glu	Gly	His	Gln	Lys	Asp	Pro	Asp	Ile	Gly	Asp	Leu	Leu	Asp
		35					40					45			
Gln	Leu	Val	Glu	Glu	Ile	Thr	Gly	Ser	Leu	Ser	Gly	Pro	Ala	Lys	Asp
	50						55					60			
Phe	Tyr	Gln	Arg	Glu	Phe	Asp	Phe	Phe	Asn	Lys	Ile	Thr	Asn	Val	Ser
65				70						75				80	
Ala	Ile	Ile	Lys	Pro	Tyr	Pro	Lys	Gly	Asp	Glu	Arg	Lys	Lys	Ala	Cys
				85					90					95	
Leu	Ser	Ala	Leu	Ser	Glu	Val	Lys	Val	Gln	Pro	Gly	Cys	Tyr	Leu	Pro
		100						105					110		
Ser	Asn	Pro	Glu	Ala	Ile	Val	Leu	Asp	Ile	Asp	Tyr	Lys	Ser	Gly	Thr
		115						120					125		
Pro	Met	Gln	Ser	Ala	Ala	Lys	Ala	Pro	Tyr	Leu	Ala	Lys	Phe	Lys	Val
	130					135					140				
Lys	Arg	Cys	Gly	Val	Ser	Glu	Leu	Glu	Lys	Glu	Gly	Leu	Arg	Cys	Arg
145					150					155				160	
Ser	Asp	Ser	Glu	Asp	Glu	Cys	Ser	Thr	Gln	Glu	Ala	Asp	Gly	Gln	Lys
			165						170				175		
Ile	Ser	Trp	Gln	Ala	Ala	Ile	Phe	Lys	Val	Gly	Asp	Asp	Cys	Arg	Gln
		180						185					190		
Val	Ser	Arg	Val	Arg	Pro	Arg	Val	Gly	Leu	Gly	Thr	Gly	Leu	Ala	Ala
		195						200					205		

Pro Gln Gly Ser Arg Pro Ala Arg Val Gln Ser His Met Gln Lys Cys

210

215

220

Glu Ser Phe Pro Ser Leu Ile Trp Phe Arg Cys His Gly Val Asn

225

230

235

<210> 2496

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2496

Met Pro Pro Ala Leu Ser Ser Arg Ser Cys Thr Glu Leu Gly Ala Thr

1

5

10

15

Ser Cys Thr Glu Thr Ser Arg Val Ala Arg Ser Cys Thr Thr Gln Ser

20

25

30

Ala Leu Ala Ala Arg Met Trp Ser Ala Thr Cys Trp Thr Thr Pro Pro

35

40

45

Gln Arg Ser Leu Met Arg Trp Arg Lys Ser Lys Tyr Leu Gly Ser Ala

50

55

60

Glu Pro Trp Ser Pro Arg Lys Pro Pro Phe Ser Pro Pro Leu Pro Phe

65

70

75

80

Cys Gln Val Arg Ala His Lys Leu Pro Gly His Ile Cys His Pro Leu

85

90

95

Gly His Pro Tyr Cys Pro Arg Ala Leu Asn Phe Leu Pro Phe Leu Met

100

105

110

Ala Leu Gly Arg Gln Met Gly Gly Ser Gly Asp Gly Met Gly Tyr Thr

115

120

125

Ala Ser Pro Cys Ser Pro Ser Gly Glu Thr Cys Leu His Gln Ala Ala

130 135 140
Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu Ala Gly Ala
145 150 155 160
Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg Gln Arg Ala
165 170 175
Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu Asn Arg Gln
180 185 190
His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala Val
195 200 205

<210> 2497

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2497

Met Leu Pro Thr Lys Glu Gly Ser Gln Ser Gly Tyr Asn Gln Trp Leu
1 5 10 15
Pro Phe Asp Glu Arg Ala Gln Glu Leu Arg Trp Glu Ala Trp Ser Thr
20 25 30
Lys Phe His Leu Lys Ala Glu Arg Glu Glu Phe Lys Val Gln Ile Asp
35 40 45
Leu Arg Glu Cys Gln Ala Tyr Ser Ser Pro Met Glu Ser Pro Gln Pro
50 55 60
Val Val Met Gly Glu Ala Pro Gln Ile Val Val Trp Cys Leu Gln Ala
65 70 75 80
Pro Gly Leu Cys His Pro Asp Leu Ser Ile Gly Val His Leu Leu Val
85 90 95

Thr Lys Tyr Lys Ser Arg Asp Trp Asp Gly Arg Gly Glu Pro Asn Arg
100 105 110
Ser Ser Phe Arg Ser Ala Glu Ala Ala Ala Phe Ala Ser Gln
115 120 125

<210> 2498

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2498

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
1 5 10 15
Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
20 25 30
Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
35 40 45
Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
50 55 60
Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
65 70 75 80
Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
85 90 95
Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
100 105 110
Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
115 120 125
Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu

130 135 140
His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
145 150 155 160
Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
165 170 175
Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
180 185 190
Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met
195 200 205
Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu
210 215 220
Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
225 230 235 240
Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe
245 250 255
Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn
260 265 270
Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys
275 280 285
Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met
290 295 300
Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg
305 310 315 320
Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser
325 330 335
Gln Val Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg
340 345 350
His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu
355 360 365

Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly Gln

370

375

380

Gly Leu Asp Tyr Phe Tyr Asp Leu Leu

385

390

<210> 2499

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2499

Met Met Ser Pro Ser Lys Leu Leu Ile Ser Arg Gly Ser Ala Leu Thr

1

5

10

15

Gln Val Trp Leu Thr Ala Ala Ile Leu Gly Gln Val Gly Ala Glu Gln

20

25

30

Ser Ala Trp Lys Gly Asp Leu Tyr Gly Arg Gln Leu Trp Glu Gly Trp

35

40

45

Cys Trp Cys Trp Ser Ser Gln Ala Pro Tyr Ser Leu Leu Met Pro Phe

50

55

60

Ser Arg Leu Pro Gly Asp Leu Val Lys His His Ile Asp Ile Ile Leu

65

70

75

80

Asn Gln Arg Asn Tyr Met Ala Ala Thr Leu Lys Ile Ile Glu Arg Asn

85

90

95

Phe Pro Glu Leu Leu Ser Leu Asn Leu Cys Asp Asn Lys Leu Tyr His

100

105

110

Leu Asp Gly Leu Pro Asp Ile Ile Glu Lys Ala Pro Lys Val Lys Thr

115

120

125

Leu Asn Leu Ser Lys Asn Lys Leu Lys Ser Ala Trp Glu Leu Gly Lys

130 135 140
Val Lys Gly Leu Lys Leu Glu Glu Leu Trp Leu Glu Gly Asn Ser Leu
145 150 155 160
Cys Ser Thr Phe Ser Asp Gln Ser Ala Tyr Val Ser Ile Ile Arg Glu
165 170 175
Tyr Phe Pro Lys Leu Leu Cys Leu Asp Gly Gln Glu Leu Ala Ser Pro
180 185 190
Ile Ile Ile Gly Ile Glu Ala Pro Glu Ile Ile Lys Pro Cys Lys Glu
195 200 205
Ser Tyr Lys Gly Ser Glu Thr Ile Lys Ser Leu Val Leu Gln Phe Leu
210 215 220
Leu Gln Tyr Tyr Leu Ile Tyr Asp Ser Glu Asp Arg Thr Gly Leu Leu
225 230 235 240
Ser Val Tyr His Asp Lys Ala Cys Phe Ser Leu Thr Ile Thr Leu Asn
245 250 255
Pro Glu Asp Pro Glu Pro Ser Ser Leu Glu Lys Tyr Phe Lys Asp Ser
260 265 270
Arg Asn Ile Lys Asn Ile Lys Asp Pro Cys Leu Arg Ile Gln Leu Leu
275 280 285
Lys His Thr Lys Arg Glu Ile Val Asp Ser Leu Ser Val Leu Pro Arg
290 295 300
Thr Gln His Asp Leu Asn Ser Tyr Val Val Asp Leu Cys Ile Gln Thr
305 310 315 320
Val Ser Thr Cys Phe Leu Pro Gln Ser Gly Pro Glu Ser
325 330

<210> 2500

<211> 294

<212> PRT

<213> Homo sapiens

<400> 2500

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Met Ser Leu Gly Gly His Pro Asn Asn Val Val Ser Val Lys Tyr Cys
  1             5             10             15
Asn Tyr Thr Ser Leu Val Phe Thr Val Ser Thr Ser Tyr Ile Lys Val
      20             25             30
Trp Asp Ile Arg Asp Ser Ala Lys Cys Ile Arg Thr Leu Thr Ser Ser
      35             40             45
Gly Gln Val Thr Leu Gly Asp Ala Cys Ser Ala Ser Thr Ser Arg Thr
      50             55             60
Val Ala Ile Pro Ser Gly Glu Asn Gln Ile Asn Gln Ile Ala Leu Asn
      65             70             75             80
Pro Thr Gly Thr Phe Leu Tyr Ala Ala Ser Gly Asn Ala Val Arg Met
      85             90             95
Trp Asp Leu Lys Arg Phe Gln Ser Thr Gly Lys Leu Thr Gly His Leu
      100            105            110
Gly Pro Val Met Cys Leu Thr Val Asp Gln Ile Ser Ser Gly Gln Asp
      115            120            125
Leu Ile Ile Thr Gly Ser Lys Asp His Tyr Ile Lys Met Phe Asp Val
      130            135            140
Thr Glu Gly Ala Leu Gly Thr Val Ser Pro Thr His Asn Phe Glu Pro
      145            150            155            160
Pro His Tyr Asp Gly Ile Glu Ala Leu Thr Ile Gln Gly Asp Asn Leu
      165            170            175
Phe Ser Gly Ser Arg Asp Asn Gly Ile Lys Lys Trp Asp Leu Thr Gln
      180            185            190
Lys Asp Leu Leu Gln Gln Val Pro Asn Ala His Lys Asp Trp Val Cys

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195	200	205
Ala Leu Gly Val Val Pro Asp His Pro Val Leu Leu Ser Gly Cys Arg		
210	215	220
Gly Gly Ile Leu Lys Val Trp Asn Met Asp Thr Phe Met Pro Val Gly		
225	230	235
Glu Met Lys Gly His Asp Ser Pro Ile Asn Ala Ile Cys Val Asn Ser		
245	250	255
Thr His Ile Phe Thr Ala Ala Asp Asp Arg Thr Val Arg Ile Trp Lys		
260	265	270
Ala Arg Asn Leu Gln Asp Gly Gln Ile Ser Asp Thr Gly Asp Leu Gly		
275	280	285
Glu Asp Ile Ala Ser Asn		
290		

<210> 2501

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2501

Met Ile Thr Ala Ile Leu Leu Gly Phe Leu Gly Leu Leu Leu Gly Ile
1 5 10 15
Ala Gly Leu Arg Cys Thr Asn Ile Gly Gly Leu Glu Leu Ser Arg Lys
20 25 30
Ala Lys Leu Ala Ala Thr Ala Gly Ala Leu His Ile Leu Ala Gly Asn
35 40 45
Trp Gly Lys Val Met Gly Arg Gly Ser Pro Ser Thr Ala Asp Phe Arg
50 55 60

Leu Leu Cys Pro His Leu Ile Ser Ser Pro Ile Pro Thr Pro His Ala
 65 70 75 80
 His Leu Pro Tyr Pro Ala Ala Trp Thr Pro Ala His Pro Cys Leu Ile
 85 90 95
 Cys Thr Pro Gln Ile Ser Trp Leu Gln Ile Ser Pro Ser Ala Val Phe
 100 105 110
 Leu Glu Leu Pro Val Gly Ala Gly His Gly Gln Val Trp Glu Gly Leu
 115 120 125
 Arg Arg
 130

<210> 2502

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2502

Met Asp Ser Gln Phe His Met Ala Gly Glu Thr Ser Gln Ser Trp Gln
 1 5 10 15
 Lys Ala Lys Ile Arg Ser Tyr Thr Ala Ala Asp Glu Arg Ala Cys Val
 20 25 30
 Gly Glu Leu Pro Ser Ile Gln Pro Ser Asp Leu Met Arg Leu Ile His
 35 40 45
 Tyr His Lys Asn Asn Thr Val Leu Met Ile Gln Leu Pro Pro Pro Arg
 50 55 60
 Phe Leu Pro Gln Tyr Val Gly Ile Met Gly Thr Thr Ile Arg Asp Leu
 65 70 75 80
 Gly Glu Asp Thr Ala Lys Pro Tyr Gln Ser His Asn Lys Asp Gln Arg

85

90

95

Pro Ser Leu Pro

100

<210> 2503

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2503

Met Asn Gly Gly Thr Ser Leu His Gln Lys Cys Gln Leu Lys Pro Arg

1

5

10

15

Gly Ser Phe Phe Ser Val Ala Leu Arg Glu Arg Pro Arg Glu Ser His

20

25

30

Gly Val Phe Pro Phe Gln Phe Arg Ser Thr Pro Arg Ala Val Thr Val

35

40

45

Ser Pro Pro Phe Leu Pro Gly Glu Lys Lys Val Leu Gly Val Pro Ser

50

55

60

Ala Gly Gln Arg Lys Asn Ser Pro Phe Phe Ala Pro Val Pro Lys Gly

65

70

75

80

Ser Phe Cys Phe His Phe His Leu Ser His Gly Arg Arg Pro Ala Gly

85

90

95

Val Gln Phe Ala Asp Pro Thr Ser Pro Met Met Pro Asn Ser Ile Leu

100

105

110

Thr Val Ser His Val Ala Leu Ser Val Leu Gly Thr Gly Glu Ser Leu

115

120

125

Trp Ala Met Ile Leu Gly Trp Thr Gly Val Pro Trp Ala Pro Leu Pro

130

135

140

Pro Ser Phe Pro Gln Ser Met Thr Arg Gln Pro Phe Pro Val Thr
 145 150 155

<210> 2504

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2504

Met His Val Thr Val Gln Thr Gln Leu His Ser Gly Lys Glu Pro Ala
 1 5 10 15
 Ser Phe Leu Leu Leu Ser Cys Cys Ala Gln Glu Val Ala Ser Val Phe
 20 25 30
 Glu Ser Asn Val Ala Ala Leu Ala Pro Ala Ile Ile Ser Ile Leu Gln
 35 40 45
 Gln Val Ala Ser Gly Lys Lys Lys Gly Arg Ala Tyr Ala Phe His Phe
 50 55 60
 Arg Asp Thr Trp Pro Ser Ala Ala His Ile Thr Leu Leu Thr Leu Cys
 65 70 75 80
 Trp Asp Gln Ser Leu Val Thr Trp Gln Gln Ile Ala Val Arg Asn Ile
 85 90 95
 Gly Lys Gly Cys Leu Trp Leu Leu Gly Leu Met Thr Ile Gly Asn Cys
 100 105 110
 Cys Thr Thr Lys Gly Gly Phe
 115

<210> 2505

<211> 583

<212> PRT

<213> Homo sapiens

<400> 2505

Met Leu Ala Ile Gly Ser Leu Asp His Ala His Ile Val Arg Leu Leu

1 5 10 15

Gly Leu Cys Pro Gly Ser Ser Leu Gln Leu Val Thr Gln Tyr Leu Pro

20 25 30

Leu Gly Ser Leu Leu Asp His Val Arg Gln His Arg Gly Ala Leu Gly

35 40 45

Pro Gln Leu Leu Leu Asn Trp Gly Val Gln Ile Ala Lys Gly Met Tyr

50 55 60

Tyr Leu Glu Glu His Gly Met Val His Arg Asn Leu Ala Ala Arg Asn

65 70 75 80

Val Leu Leu Lys Ser Pro Ser Gln Val Gln Val Ala Asp Phe Gly Val

85 90 95

Ala Asp Leu Leu Pro Pro Asp Asp Lys Gln Leu Leu Tyr Ser Glu Ala

100 105 110

Lys Thr Pro Ile Lys Trp Met Ala Leu Glu Ser Ile His Phe Gly Lys

115 120 125

Tyr Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu

130 135 140

Leu Met Thr Phe Gly Ala Glu Pro Tyr Ala Gly Leu Arg Leu Ala Glu

145 150 155 160

Val Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Ala Gln Pro Gln Ile

165 170 175

Cys Thr Ile Asp Val Tyr Met Val Met Val Lys Cys Trp Met Ile Asp

180 185 190

Glu Asn Ile Arg Pro Thr Phe Lys Glu Leu Ala Asn Glu Phe Thr Arg
 195 200 205
 Met Ala Arg Asp Pro Pro Arg Tyr Leu Val Ile Lys Arg Glu Ser Gly
 210 215 220
 Pro Gly Ile Ala Pro Gly Pro Glu Pro His Gly Leu Thr Asn Lys Lys
 225 230 235 240
 Leu Glu Glu Val Glu Leu Glu Pro Glu Leu Asp Leu Asp Leu Asp Leu
 245 250 255
 Glu Ala Glu Glu Asp Asn Leu Ala Thr Thr Thr Leu Gly Ser Ala Leu
 260 265 270
 Ser Leu Pro Val Gly Thr Leu Asn Arg Pro Arg Gly Ser Gln Ser Leu
 275 280 285
 Leu Ser Pro Ser Ser Gly Tyr Met Pro Met Asn Gln Gly Asn Leu Gly
 290 295 300
 Glu Ser Cys Gln Glu Ser Ala Val Ser Gly Ser Ser Glu Arg Cys Pro
 305 310 315 320
 Arg Pro Val Ser Leu His Pro Met Pro Arg Gly Cys Leu Ala Ser Glu
 325 330 335
 Ser Ser Glu Gly His Val Thr Gly Ser Glu Ala Glu Leu Gln Glu Lys
 340 345 350
 Val Ser Met Cys Arg Ser Arg Ser Arg Ser Arg Ser Pro Arg Pro Arg
 355 360 365
 Gly Asp Ser Ala Tyr His Ser Gln Arg His Ser Leu Leu Thr Pro Val
 370 375 380
 Thr Pro Leu Ser Pro Pro Gly Leu Glu Glu Glu Asp Val Asn Gly Tyr
 385 390 395 400
 Val Met Pro Asp Thr His Leu Lys Gly Thr Pro Ser Ser Arg Glu Gly
 405 410 415
 Thr Leu Ser Ser Val Gly Leu Ser Ser Val Leu Gly Thr Glu Glu Glu

420 425 430
Asp Glu Asp Glu Glu Tyr Glu Tyr Met Asn Arg Arg Arg Arg His Ser
435 440 445
Pro Pro His Pro Pro Arg Pro Ser Ser Leu Glu Glu Leu Gly Tyr Glu
450 455 460
Tyr Met Asp Val Gly Ser Asp Leu Ser Ala Ser Leu Gly Ser Thr Gln
465 470 475 480
Ser Cys Pro Leu His Pro Val Pro Ile Met Pro Thr Ala Gly Thr Thr
485 490 495
Pro Asp Glu Asp Tyr Glu Tyr Met Asn Arg Gln Arg Asp Gly Gly Gly
500 505 510
Pro Gly Gly Asp Tyr Ala Ala Met Gly Ala Cys Pro Ala Ser Glu Gln
515 520 525
Gly Tyr Glu Glu Met Arg Ala Phe Gln Gly Pro Gly His Gln Ala Pro
530 535 540
His Val His Tyr Ala Arg Leu Lys Thr Leu Arg Ser Leu Glu Ala Thr
545 550 555 560
Asp Ser Ala Phe Asp Asn Pro Asp Tyr Trp His Ser Arg Leu Phe Pro
565 570 575
Lys Ala Asn Ala Gln Gly Thr
580

<210> 2506

<211> 247

<212> PRT

<213> Homo sapiens

<400> 2506

Met Lys Arg Leu Leu Thr Thr Gly Val Ser Arg Trp Asn Thr Arg Gln
1 5 10 15
Ile Ala Leu Trp Asp Gln Glu Asp Leu Ser Met Pro Leu Ile Glu Glu
20 25 30
Glu Ile Asp Gly Leu Ser Gly Leu Leu Phe Pro Phe Tyr Asp Ala Asp
35 40 45
Thr His Met Leu Tyr Leu Ala Gly Lys Gly Asp Gly Asn Ile Arg Tyr
50 55 60
Tyr Glu Ile Ser Thr Glu Lys Pro Tyr Leu Ser Tyr Leu Met Glu Phe
65 70 75 80
Arg Ser Pro Ala Pro Gln Lys Gly Leu Gly Val Met Pro Lys His Gly
85 90 95
Leu Asp Val Ser Ala Cys Glu Val Phe Arg Phe Tyr Lys Leu Val Thr
100 105 110
Leu Lys Gly Leu Ile Glu Pro Ile Ser Met Ile Val Pro Arg Arg Ser
115 120 125
Asp Ser Tyr Gln Glu Asp Ile Tyr Pro Met Thr Pro Gly Thr Glu Pro
130 135 140
Ala Leu Thr Pro Asp Glu Trp Leu Gly Gly Ile Asn Arg Asp Pro Val
145 150 155 160
Leu Met Ser Leu Lys Glu Gly Tyr Lys Lys Ser Ser Lys Met Val Phe
165 170 175
Lys Ala Pro Ile Lys Glu Lys Lys Ser Val Val Val Asn Gly Ile Asp
180 185 190
Leu Leu Glu Asn Val Pro Pro Arg Thr Glu Asn Glu Leu Leu Arg Met
195 200 205
Phe Phe Arg Gln Gln Asp Glu Ile Arg Arg Leu Lys Glu Glu Leu Ala
210 215 220
Gln Lys Asp Ile Arg Ile Arg Gln Leu Gln Leu Glu Leu Lys Asn Leu

225 230 235 240
Arg Asn Ser Pro Lys Asn Cys
245

<210> 2507

<211> 345

<212> PRT

<213> Homo sapiens

<400> 2507

Met Ala Pro Val Ser Trp Ile Thr Pro Gly Leu Lys Thr Thr Ala Val
1 5 10 15
Cys Arg Gly Val Leu Arg Gly Val Thr Phe Leu Leu Arg Arg Glu Gly
20 25 30
Asp His Glu Phe Leu Glu Val Pro Glu Ala Gln Glu Asp Val Glu Ala
35 40 45
Thr Phe Pro Val His Gln Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr
50 55 60
Asp Gly Glu Gly Ala Leu Ser Glu Pro Ser Ala Thr Val Thr Ile Glu
65 70 75 80
Glu Leu Ala Ala Pro Pro Pro Pro Val Leu Met His His Gly Glu Ser
85 90 95
Ser Gln Val Leu His Pro Gly Asn Lys Val Thr Leu Thr Cys Val Ala
100 105 110
Pro Leu Ser Gly Val Asp Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu
115 120 125
Leu Val Pro Arg Ser Ser Thr Ser Pro Asp Arg Ile Phe Phe His Leu
130 135 140

Asn Ala Val Ala Leu Gly Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg			
145	150	155	160
Leu His Asp Asn Gln Asn Gly Trp Ser Gly Asp Ser Ala Pro Val Glu			
165	170	175	
Leu Ile Leu Ser Asp Glu Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu			
180	185	190	
Pro Glu Ser Gly Arg Ala Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu			
195	200	205	
Gly Ala Arg Phe Ala Leu Val Arg Glu Asp Arg Gly Gly Arg Arg Val			
210	215	220	
His Arg Phe Gln Ser Pro Ala Gly Thr Glu Ala Leu Phe Glu Leu His			
225	230	235	240
Asn Ile Ser Val Ala Asp Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp			
245	250	255	
Leu Lys Pro Pro Phe Gly Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu			
260	265	270	
His Val Asp Gly Glu Leu Ala Gly His Gln Arg Gly Arg Ala Arg Val			
275	280	285	
Gln Cys Pro Ser Gly Pro Pro Val Phe Pro Leu Phe Pro Trp Ala Ser			
290	295	300	
Asp Gly Gly Ala Leu Gly Leu Gly Ser Ala Pro Ile Ala Tyr Pro Gly			
305	310	315	320
Gly Glu Gln Ala Ile Gly Gly Arg Gly Ser Gly Asp Ala Trp Asn Phe			
325	330	335	
Gly Leu Phe Pro Thr Asp Ala Ser Pro			
340	345		

<210> 2508

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2508

Met Arg Thr Gly Ile Phe Val Phe Leu Thr Lys Cys Cys Ile Ser Gln

1 5 10 15

Asp His Pro Gly Pro Pro Cys Pro Ile Leu Cys Leu Lys Lys Pro Trp

20 25 30

Asp Pro Ser Arg Gln Thr His Arg Arg Leu Asp Val Glu Arg Ser Thr

35 40 45

Ser Val Gln Glu His Met Gly Gly Cys His Phe Ser Pro Phe Pro Glu

50 55 60

Arg Glu Lys Leu Ser Thr Leu Arg Gly Ile His Gln Gln Ala Pro Ala

65 70 75 80

Leu Trp Gln Ala Thr Asp Gln Trp Ile Asp Ile Glu Phe Gly Trp Gly

85 90 95

Ser Gln Arg Arg Ala Trp Ala Ala Glu

100 105

<210> 2509

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2509

Met Arg Trp Arg Gln Arg Ser Phe Leu Leu Arg Leu Phe Leu Gly Ser

1 5 10 15

Leu Arg Gly Gly Gln His His Pro Pro Leu Thr Leu Pro Ser Ala Ser
 20 25 30
 Ser Leu Pro Phe Ser Thr Leu Ser Leu Leu Leu Ala Ser Ser Leu Ser
 35 40 45
 Cys Cys Leu Val Ser Pro Cys Pro Lys Thr Pro Gly Ser Phe Val Leu
 50 55 60
 Leu Pro Trp Pro Pro Pro Arg Arg Arg Ser Gln Ala Pro Ser Pro Arg
 65 70 75 80
 Arg Gly Ile His Thr Thr Gly Ser Cys Trp Gly Trp Gly Ser Pro Ala
 85 90 95
 Gly Phe Leu Met Pro Cys Ala Gln Gly Val Ala Ala Val Ile Phe Gly
 100 105 110
 Leu Ser

<210> 2510

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2510

Met Gln Phe Arg Leu Phe Ser Phe Ala Leu Ile Ile Leu Asn Cys Met
 1 5 10 15
 Asp Tyr Ser His Cys Gln Gly Asn Arg Trp Arg Arg Ser Lys Arg Ala
 20 25 30
 Ser Tyr Val Ser Asn Pro Ile Cys Lys Gly Cys Leu Ser Cys Ser Lys
 35 40 45
 Asp Asn Gly Cys Ser Arg Cys Gln Gln Lys Leu Phe Phe Phe Leu Arg

50	55	60
Arg Glu Gly Met Arg Gln Tyr Gly Glu Cys Leu His Ser Cys Pro Ser		
65	70	75
Gly Tyr Tyr Gly His Arg Ala Pro Asp Met Asn Arg Cys Ala Arg Cys		
85	90	95
Arg Ile Glu Asn Cys Asp Ser Cys Phe Ser Lys Asp Phe Cys Thr Lys		
100	105	110
Cys Lys Val Gly Phe Tyr Leu His Arg Gly Arg Cys Phe Asp Glu Cys		
115	120	125
Pro Asp Gly Phe Ala Pro Leu Glu Glu Thr Met Glu Cys Val Glu Gly		
130	135	140
Cys Glu Val Gly His Trp Ser Glu Trp Gly Thr Cys Ser Arg Asn Asn		
145	150	155
Arg Thr Cys Gly Phe Lys Trp Gly Leu Glu Thr Arg Thr Arg Gln Ile		
165	170	175
Val Lys Lys Pro Val Lys Asp Thr Ile Pro Cys Pro Thr Ile Ala Glu		
180	185	190
Ser Arg Arg Cys Lys Met Thr Met Arg His Cys Pro Gly Gly Lys Arg		
195	200	205
Thr Pro Lys Ala Lys Glu Lys Arg Asn Lys Lys Lys Lys Arg Lys Leu		
210	215	220
Ile Glu Arg Ala Gln Glu Gln His Ser Val Phe Leu Ala Thr Asp Arg		
225	230	235
Ala Asn Gln		240

<210> 2511

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2511

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro
1 5 10 15
Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala
20 25 30
Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro
35 40 45
Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro
50 55 60
Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val
65 70 75 80
Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg
85 90 95
Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His
100 105 110
Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe
115 120 125
Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg
130 135 140

<210> 2512

<211> 172

<212> PRT

<213> Homo sapiens

<400> 2512

Met Pro Arg Ala Ser Cys Cys His Cys Leu Cys Gly Pro Glu Ser Trp
 1 5 10 15
 Thr Cys Pro Ser Asp Ser Gly Val Ala Ala Trp Ala Gly Ser Val Thr
 20 25 30
 Leu Gly Cys Tyr Thr Phe Trp Glu Leu Asp Arg Ser Gly Cys Leu Gly
 35 40 45
 Gly Leu Trp His Pro Gly Met Leu Tyr Ile Leu Gly Ala Gly Gln Glu
 50 55 60
 Trp Leu Leu Gly Trp Ala Leu Ala Pro Trp Asp Val Ile His Ser Gly
 65 70 75 80
 Asn Cys Asn Gln Pro Leu Glu Lys Ser Glu Leu Gln Glu Val Thr Leu
 85 90 95
 Gly Trp Asp Leu Gly Thr Trp Pro Gly Gln His Gly Asp Thr Arg Leu
 100 105 110
 Gln Gln Glu Leu Trp Ser Val Leu Gly Ser Leu Gly Ala Gly Leu Arg
 115 120 125
 Pro Trp Ala Gly Phe Leu Gln Ala Glu Val Leu Gly Lys Trp Gly Ser
 130 135 140
 Gln Ala Ser Cys Arg Leu Pro His Tyr Val Ala Ser Asp Ser Ser Ser
 145 150 155 160
 Leu Met Lys Ala Ile Trp Phe Ile Thr Leu Lys Leu
 165 170

<210> 2513

<211> 678

<212> PRT

<213> Homo sapiens

<400> 2513

Met Val Arg Ala Gly Gly Arg Ala Trp Gln Gln Gly Leu His Ser Leu
 1 5 10 15
 Ser Ala Val Ser Ile Leu Ala Lys Gly Phe Met Phe Leu Leu Val Gly
 20 25 30
 Asp Ser Arg Ala Glu Ser Val Thr Asn Thr Leu Val Leu Phe Thr Ile
 35 40 45
 Gly Glu Glu Ser Leu Thr Ile Phe Val Asp Lys Gln Lys Leu Gly Arg
 50 55 60
 Lys Thr Glu Thr Thr Gly Gly Ala Ser Ile Ile Gly Gly Ser Gly Asn
 65 70 75 80
 Ser Thr Ala Val Ser Leu Glu Thr Leu His Gln Leu Ala Ala Ser Tyr
 85 90 95
 Phe Ile Asp Arg Glu Ser Thr Leu Arg Arg Leu His His Ile Gln Ile
 100 105 110
 Ala Thr Gly Ala Ile Lys Val Thr Glu Thr Arg Thr Gly Pro Leu Gly
 115 120 125
 Cys Ser Asn Tyr Asp Asn Leu Asp Ser Val Ser Ser Val Leu Val Gln
 130 135 140
 Ser Pro Glu Asn Lys Val Gln Leu Leu Gly Leu Gln Val Leu Leu Pro
 145 150 155 160
 Glu Tyr Leu Arg Glu Arg Phe Val Ala Ala Ala Leu Ser Tyr Ile Thr
 165 170 175
 Cys Ser Ser Glu Gly Glu Leu Val Cys Lys Glu Asn Asp Cys Trp Cys
 180 185 190
 Lys Cys Ser Pro Thr Phe Pro Glu Cys Asn Cys Pro Asp Ala Asp Ile
 195 200 205
 Gln Ala Met Glu Asp Ser Leu Leu Gln Ile Gln Asp Ser Trp Ala Thr

210	215	220
His Asn Arg Gln Phe Glu Glu Ser Glu Glu Phe Gln Ala Leu Leu Lys		
225	230	235
Arg Leu Pro Asp Asp Arg Phe Leu Asn Ser Thr Ala Ile Ser Gln Phe		
245	250	255
Trp Ala Met Asp Thr Ser Leu Gln His Arg Tyr Gln Gln Leu Gly Ala		
260	265	270
Gly Leu Lys Val Leu Phe Lys Lys Thr His Arg Ile Leu Arg Arg Leu		
275	280	285
Phe Asn Leu Cys Lys Arg Cys His Arg Gln Pro Arg Phe Arg Leu Pro		
290	295	300
Lys Glu Arg Ser Leu Ser Tyr Trp Trp Asn Arg Ile Gln Ser Leu Leu		
305	310	315
Tyr Cys Gly Glu Ser Thr Phe Pro Gly Thr Phe Leu Glu Gln Ser His		
325	330	335
Ser Cys Thr Cys Pro Tyr Asp Gln Ser Ser Cys Gln Gly Pro Ile Pro		
340	345	350
Cys Ala Leu Gly Glu Gly Pro Ala Cys Ala His Cys Ala Pro Asp Asn		
355	360	365
Ser Thr Arg Cys Gly Ser Cys Asn Pro Gly Tyr Val Leu Ala Gln Gly		
370	375	380
Leu Cys Arg Pro Glu Val Ala Glu Ser Leu Glu Asn Phe Leu Gly Leu		
385	390	395
Glu Thr Asp Leu Gln Asp Leu Glu Leu Lys Tyr Leu Leu Gln Lys Gln		
405	410	415
Asp Ser Arg Ile Glu Val His Ser Ile Phe Ile Ser Asn Asp Met Arg		
420	425	430
Leu Gly Ser Trp Phe Asp Pro Ser Trp Arg Lys Arg Met Leu Leu Thr		
435	440	445

Leu Lys Ser Asn Lys Tyr Lys Pro Gly Leu Val His Val Met Leu Ala
450 455 460

Leu Ser Leu Gln Ile Cys Leu Thr Lys Asn Ser Thr Leu Glu Pro Val
465 470 475 480

Met Ala Ile Tyr Val Asn Pro Phe Gly Gly Ser His Ser Glu Ser Trp
485 490 495

Phe Met Pro Val Asn Glu Gly Ser Phe Pro Asp Trp Glu Arg Thr Asn
500 505 510

Val Asp Ala Ala Ala Gln Cys Gln Asn Trp Thr Ile Thr Leu Gly Asn
515 520 525

Arg Trp Lys Thr Phe Phe Glu Thr Val His Val Tyr Leu Arg Ser Arg
530 535 540

Ile Lys Ser Leu Asp Asp Ser Ser Asn Glu Thr Ile Tyr Tyr Glu Pro
545 550 555 560

Leu Glu Met Thr Asp Pro Ser Lys Asn Leu Gly Tyr Met Lys Ile Asn
565 570 575

Thr Leu Gln Val Phe Gly Tyr Ser Leu Pro Phe Asp Pro Asp Ala Ile
580 585 590

Arg Asp Leu Ile Leu Gln Leu Asp Tyr Pro Tyr Thr Gln Gly Ser Gln
595 600 605

Asp Ser Ala Leu Leu Gln Leu Ile Glu Leu Arg Asp Arg Val Asn Gln
610 615 620

Leu Ser Pro Pro Gly Lys Val Arg Leu Asp Leu Phe Ser Cys Leu Leu
625 630 635 640

Arg His Arg Leu Lys Leu Ala Asn Asn Glu Val Gly Arg Ile Gln Ser
645 650 655

Ser Leu Arg Ala Phe Asn Ser Lys Leu Pro Asn Pro Val Glu Tyr Glu
660 665 670

Thr Gly Lys Leu Cys Ser

675

<210> 2514

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2514

Met Leu Arg Asn Pro Gly Ser Gln Gly Pro Ala Ala Ala Gly Arg Gly
 1 5 10 15
 Ala Val Gln Glu Ala Gly Leu Gly Met Ser Thr Gly Leu Arg Leu Ala
 20 25 30
 Glu Ser Arg Val Glu Pro Ala Leu Glu Lys Gln Ala Gln Leu Glu Glu
 35 40 45
 Gln Leu Arg Asp Lys Val Leu His Glu Lys Asp Leu Ser Gln Gln Gln
 50 55 60
 Met Gln Ser Asp Leu Asp Lys Ala Asp Leu Ser Ala Arg Arg Val Pro
 65 70 75 80
 Gly Gly Cys Cys Met Arg Gln Ala Ser Leu Gln Lys Ser Asp Arg Ala
 85 90 95
 Gly Pro Gly Ser Glu Ala Ser Thr Glu Ala Glu Ser Gly Glu Gly Ser
 100 105 110
 Gly Arg Gln Gly Pro His Arg Glu Ala
 115 120

<210> 2515

<211> 766

<212> PRT

<213> Homo sapiens

<400> 2515

Met	Ile	Trp	Arg	Ser	Arg	Ala	Gly	Ala	Glu	Leu	Phe	Ser	Leu	Met	Ala
1				5					10					15	
Leu	Trp	Glu	Trp	Ile	Ala	Leu	Ser	Leu	His	Cys	Trp	Val	Leu	Ala	Val
				20					25					30	
Ala	Ala	Val	Ser	Asp	Gln	His	Ala	Thr	Ser	Pro	Phe	Asp	Trp	Leu	Leu
			35					40					45		
Ser	Asp	Lys	Gly	Pro	Phe	His	Arg	Ser	Gln	Glu	Tyr	Thr	Asp	Phe	Val
		50					55				60				
Asp	Arg	Ser	Arg	Gln	Gly	Phe	Ser	Thr	Arg	Tyr	Lys	Ile	Tyr	Arg	Glu
				65			70				75				80
Phe	Gly	Arg	Trp	Lys	Val	Asn	Asn	Leu	Ala	Val	Glu	Arg	Arg	Asn	Phe
				85					90						95
Leu	Gly	Ser	Pro	Leu	Pro	Leu	Ala	Pro	Glu	Phe	Phe	Arg	Asn	Ile	Arg
			100						105					110	
Leu	Leu	Gly	Arg	Arg	Pro	Thr	Leu	Gln	Gln	Ile	Thr	Glu	Asn	Leu	Ile
			115						120					125	
Lys	Lys	Tyr	Gly	Thr	His	Phe	Leu	Leu	Ser	Ala	Thr	Leu	Gly	Gly	Glu
			130						135					140	
Glu	Ser	Leu	Thr	Ile	Phe	Val	Asp	Lys	Arg	Lys	Leu	Ser	Lys	Arg	Ala
			145						150					155	160
Glu	Gly	Ser	Asp	Ser	Thr	Thr	Asn	Ser	Ser	Ser	Val	Thr	Leu	Glu	Thr
				165					170					175	
Leu	His	Gln	Leu	Ala	Ala	Ser	Tyr	Phe	Ile	Asp	Arg	Asp	Ser	Thr	Leu
				180					185					190	
Arg	Arg	Leu	His	His	Ile	Gln	Ile	Ala	Ser	Thr	Ala	Ile	Lys	Val	Thr

195	200	205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
210	215	220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
225	230	235
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
245	250	255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
260	265	270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
275	280	285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
290	295	300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
305	310	315
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
325	330	335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
340	345	350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
355	360	365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
370	375	380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
385	390	395
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
405	410	415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
420	425	430

Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala
435 440 445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn
450 455 460
Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu
465 470 475 480
Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu
485 490 495
Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala
500 505 510
Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser
515 520 525
Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser
530 535 540
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr
545 550 555 560
Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe
565 570 575
Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser
580 585 590
Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr
595 600 605
Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr
610 615 620
Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly
625 630 635 640
Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg
645 650 655
Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser

Pro Leu Leu Leu Thr His Ile Leu Ser Ala Pro Thr Pro Val His Pro
 65 70 75 80
 Leu Val Ser Leu Ser Tyr Leu Ser Leu Ser Cys Pro His Pro Ser Leu
 85 90 95
 Phe Leu Ser Val Leu Leu Leu Pro Phe Thr Leu Phe Val Ser Pro Ser
 100 105 110
 Leu Ser Val Leu Pro Pro Ser Leu Ser Thr Leu His Leu Ser Leu Cys
 115 120 125
 Val Ser Ile Ser Val Ser Leu Ser Val Ser Leu Pro Ile Pro His Pro
 130 135 140
 His Ser Leu Ser Ser Pro Ser Ser Leu Pro Ser Cys Leu Pro Leu Ile
 145 150 155 160
 Trp Phe Ile Leu Leu His Pro Ala Ala Pro Pro Thr Glu Pro
 165 170

<210> 2517

<211> 484

<212> PRT

<213> Homo sapiens

<400> 2517

Met Val His Glu Thr Ser Tyr Ser Ala Gln Phe Lys Gly Glu Ala Ser
 1 5 10 15
 Lys Pro Thr Thr Ala Asp Asn Lys Val Ile Asp Arg Arg Arg Ile Arg
 20 25 30
 Ser Leu Tyr Ser Glu Pro Phe Lys Glu Pro Pro Lys Val Glu Lys Pro
 35 40 45
 Ser Val Gln Ser Ser Lys Pro Lys Lys Thr Ser Ala Ser His Lys Pro

50	55	60	
Thr Arg Lys Ala Lys Asp Lys Gln Ala Val Ser Gly Gln Ala Ala Lys			
65	70	75	80
Lys Lys Ser Ala Glu Gly Pro Ser Thr Thr Lys Pro Asp Asp Lys Glu			
85	90	95	
Gln Ser Lys Glu Met Asn Asn Lys Leu Ala Glu Ala Lys Glu Ser Leu			
100	105	110	
Ala Gln Pro Val Ser Asp Ser Ser Lys Thr Gln Gly Pro Val Ala Thr			
115	120	125	
Glu Pro Asp Lys Asp Gln Gly Ser Val Val Pro Gly Leu Leu Lys Gly			
130	135	140	
Gln Gly Pro Met Val Gln Glu Pro Leu Lys Lys Gln Gly Ser Val Val			
145	150	155	160
Pro Gly Pro Pro Lys Asp Leu Gly Pro Met Ile Pro Leu Pro Val Lys			
165	170	175	
Asp Gln Asp His Thr Val Pro Glu Pro Leu Lys Asn Glu Ser Pro Val			
180	185	190	
Ile Ser Ala Pro Val Lys Asp Gln Gly Pro Ser Val Pro Val Pro Pro			
195	200	205	
Lys Asn Gln Ser Pro Met Val Pro Ala Lys Val Lys Asp Gln Gly Ser			
210	215	220	
Val Val Pro Glu Ser Leu Lys Asp Gln Gly Pro Arg Ile Pro Glu Pro			
225	230	235	240
Val Lys Asn Gln Ala Pro Met Val Pro Ala Pro Val Lys Asp Glu Gly			
245	250	255	
Pro Met Val Ser Ala Ser Val Lys Asp Gln Gly Pro Met Val Ser Ala			
260	265	270	
Pro Val Lys Asp Gln Gly Pro Ile Val Pro Ala Pro Val Lys Gly Glu			
275	280	285	

Gly Pro Ile Val Pro Ala Pro Val Lys Asp Glu Gly Pro Met Val Ser
 290 295 300
 Ala Pro Ile Lys Asp Gln Asp Pro Met Val Pro Glu His Pro Lys Asp
 305 310 315 320
 Glu Ser Ala Met Ala Thr Ala Pro Ile Lys Asn Gln Gly Ser Met Val
 325 330 335
 Ser Glu Pro Val Lys Asn Gln Gly Leu Val Val Ser Gly Pro Val Lys
 340 345 350
 Asp Gln Asp Val Val Val Pro Glu His Ala Lys Val His Asp Ser Ala
 355 360 365
 Val Val Ala Pro Val Lys Asn Gln Gly Pro Val Val Pro Glu Ser Val
 370 375 380
 Lys Asn Gln Asp Pro Ile Leu Pro Val Leu Val Lys Asp Gln Gly Pro
 385 390 395 400
 Thr Val Leu Gln Pro Pro Lys Asn Gln Gly Arg Ile Val Pro Glu Pro
 405 410 415
 Leu Lys Asn Gln Val Pro Ile Val Pro Val Pro Leu Lys Asp Gln Asp
 420 425 430
 Pro Leu Val Pro Val Pro Ala Lys Asp Gln Gly Pro Ala Val Pro Glu
 435 440 445
 Pro Leu Lys Thr Gln Gly Pro Arg Asp Pro Gln Leu Pro Thr Val Ser
 450 455 460
 Pro Leu Pro Arg Val Met Ile Pro Thr Ala Pro His Thr Glu Tyr Ile
 465 470 475 480
 Glu Ser Ser Pro

<210> 2518

<211> 367

<212> PRT

<213> Homo sapiens

<400> 2518

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg

1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu

20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly

35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg

50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val

65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Ser Arg

85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu

100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp

115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro

130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu

145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro

165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg

180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
195 200 205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser
210 215 220
Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
225 230 235 240
Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
245 250 255
Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys
260 265 270
Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg
275 280 285
Leu Lys Pro Glu Gly Glu Leu Pro Ala Thr Gln Ser Pro Ile Pro Ser
290 295 300
Thr Ile Arg Ser Val Gly Cys Trp Glu Lys Ala Glu Leu Gly Asp Lys
305 310 315 320
Glu Asn Ser Ser Ala Gly Thr Leu Pro Ser Asp Leu Gly Ala Ser Lys
325 330 335
Gly Lys Glu Pro Glu Pro Ala Ser Leu Ala Ser Ser His Ser Leu Pro
340 345 350
Arg Arg His Ala Met Pro Ser Thr Leu Ser Val Ser Val His Glu
355 360 365

<210> 2519

<211> 626

<212> PRT

<213> Homo sapiens

<400> 2519

Met	Ser	Lys	Lys	Gly	Arg	Ser	Lys	Gly	Glu	Lys	Pro	Glu	Met	Glu	Thr
1				5					10					15	
Asp	Ala	Val	Gln	Met	Ala	Asn	Glu	Glu	Leu	Arg	Ala	Lys	Leu	Thr	Ser
			20					25					30		
Ile	Gln	Ile	Glu	Phe	Gln	Gln	Glu	Lys	Ser	Lys	Val	Gly	Lys	Leu	Arg
			35					40					45		
Glu	Arg	Leu	Gln	Glu	Ala	Lys	Leu	Glu	Arg	Glu	Gln	Glu	Gln	Arg	Arg
			50				55						60		
His	Thr	Ala	Tyr	Ile	Ser	Glu	Leu	Lys	Ala	Lys	Leu	His	Glu	Glu	Lys
			65				70					75			80
Thr	Lys	Glu	Leu	Gln	Ala	Leu	Arg	Glu	Gly	Leu	Ile	Arg	Gln	His	Glu
				85					90					95	
Gln	Glu	Ala	Ala	Arg	Thr	Ala	Lys	Ile	Lys	Glu	Gly	Glu	Leu	Gln	Arg
			100					105						110	
Leu	Gln	Ala	Thr	Leu	Asn	Val	Leu	Arg	Asp	Gly	Ala	Ala	Asp	Lys	Val
			115					120						125	
Lys	Thr	Ala	Leu	Leu	Thr	Glu	Ala	Arg	Glu	Glu	Ala	Arg	Arg	Ala	Phe
			130					135						140	
Asp	Gly	Glu	Arg	Leu	Arg	Leu	Gln	Gln	Glu	Ile	Leu	Glu	Leu	Lys	Ala
			145					150				155			160
Ala	Arg	Lys	Gln	Ala	Glu	Glu	Ala	Leu	Ser	Asn	Cys	Met	Gln	Ala	Asp
				165					170					175	
Lys	Thr	Lys	Ala	Ala	Asp	Leu	Arg	Ala	Ala	Tyr	Gln	Ala	His	Gln	Asp
			180						185					190	
Glu	Val	His	Arg	Ile	Lys	Arg	Glu	Cys	Glu	Arg	Asp	Ile	Arg	Arg	Leu
			195						200					205	
Met	Asp	Glu	Ile	Lys	Gly	Lys	Asp	Arg	Val	Ile	Leu	Ala	Ser	Glu	Lys
			210					215						220	

Glu Leu Gly Val Gln Ala Gly Gln Thr Gln Lys Leu Leu Leu Gln Lys
225 230 235 240
Glu Ala Leu Asp Glu Gln Leu Val Gln Val Lys Glu Ala Glu Arg His
245 250 255
His Ser Ser Pro Lys Arg Glu Leu Pro Pro Gly Ile Gly Asp Met Val
260 265 270
Glu Leu Met Gly Val Gln Asp Gln His Met Asp Glu Arg Asp Val Arg
275 280 285
Arg Phe Gln Leu Lys Ile Ala Glu Leu Asn Ser Val Ile Arg Lys Leu
290 295 300
Glu Asp Arg Asn Thr Leu Leu Ala Asp Glu Arg Asn Glu Leu Leu Lys
305 310 315 320
Arg Ser Arg Glu Thr Glu Val Gln Leu Lys Pro Leu Val Glu Lys Asn
325 330 335
Lys Arg Met Asn Lys Lys Asn Glu Asp Leu Leu Gln Ser Ile Gln Arg
340 345 350
Met Glu Glu Lys Ile Lys Asn Leu Thr Arg Glu Asn Ala Glu Met Lys
355 360 365
Glu Lys Leu Ser Ala Gln Ala Ser Leu Lys Arg His Thr Ser Leu Asn
370 375 380
Asp Leu Ser Leu Thr Arg Asp Glu Gln Glu Ile Glu Phe Leu Arg Leu
385 390 395 400
Gln Val Leu Glu Gln Gln His Val Ile Asp Asp Leu Ser Leu Glu Arg
405 410 415
Glu Arg Leu Leu Arg Ser Lys Arg His Arg Gly Lys Ser Leu Lys Pro
420 425 430
Pro Lys Lys His Val Val Glu Thr Phe Phe Gly Phe Asp Glu Glu Ser
435 440 445
Val Asp Ser Glu Thr Leu Ser Glu Thr Ser Tyr Asn Thr Asp Arg Thr

450 455 460
 Asp Arg Thr Pro Ala Thr Pro Glu Glu Asp Leu Asp Asp Ala Thr Ala
 465 470 475 480
 Arg Glu Glu Ala Asp Leu Arg Phe Cys Gln Leu Thr Arg Glu Tyr Gln
 485 490 495
 Ala Leu Gln Arg Ala Tyr Ala Leu Leu Gln Glu Gln Val Gly Gly Thr
 500 505 510
 Leu Asp Ala Glu Arg Glu Ala Arg Thr Arg Glu Gln Leu Gln Ala Asp
 515 520 525
 Leu Leu Arg Cys Gln Ala Lys Ile Glu Asp Leu Glu Lys Leu Leu Val
 530 535 540
 Glu Lys Gly Gln Asp Ser Lys Trp Val Glu Glu Lys Gln Leu Leu Ile
 545 550 555 560
 Arg Thr Asn Gln Asp Leu Leu Glu Lys Ile Tyr Arg Leu Glu Met Glu
 565 570 575
 Glu Asn Gln Leu Lys Asn Glu Met Gln Asp Ala Lys Asp Gln Asn Glu
 580 585 590
 Leu Leu Glu Phe Arg Val Leu Glu Leu Glu Val Arg Asp Ser Ile Cys
 595 600 605
 Cys Lys Leu Ser Asn Gly Ala Asp Ile Leu Phe Glu Pro Lys Leu Lys
 610 615 620
 Phe Met
 625

<210> 2520

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2520

Met Gly Leu Val Leu Pro Trp Ser Ala Asp Asp Asp Ser Pro Ser Arg
1 5 10 15
Ala Thr Leu Gly Asn Met Lys Gln Val Trp Arg Val Gly Cys Val Pro
20 25 30
Ala Leu Val Gly Pro Val Gly Leu Glu His Ala Phe Arg Gly Ser Val
35 40 45
Trp Ala Glu Ala Arg Pro Thr Thr Gln Cys Gln Ser Gln Arg Arg Gly
50 55 60
Pro Thr Thr Lys Ala Lys Leu Asp Gln Val Ser Ile Ala Met Ala Gln
65 70 75 80
Cys Ala Pro Trp Pro Leu Lys Ile Pro Leu Cys Arg Val Cys Arg Asp
85 90 95
Leu Asp Cys Lys Gly Pro Ser Leu Gln Val Trp Lys His Leu Pro Ile
100 105 110
Arg Ala Leu Ser Pro Ser Gly Ser Gly Leu Gln Gly Ala Ala Gly Phe
115 120 125
Thr Ala Leu Gln Leu Gly Ser Gln Leu Ser Pro Arg Val Leu Val Glu
130 135 140
Pro Ser Arg Gly Gly Trp Arg Val Gly Phe Lys Gly Asp Gly Asn Thr
145 150 155 160
Trp Gly Arg Ser Trp Asn Leu Val Ala
165

<210> 2521

<211> 278

<212> PRT

<213> Homo sapiens

<400> 2521

Met Ala Met Ser Leu Leu Gln Asp Trp Cys Arg Ser Leu Asp Val Asp
 1 5 10 15
 Ala His Arg Ala Leu Leu Val Thr Gly Ile Pro Glu Gly Leu Glu Gln
 20 25 30
 Ala Asp Val Glu Ala Val Leu Gln Pro Thr Leu Leu Pro Leu Gly Thr
 35 40 45
 Phe Arg Leu Arg His Met Lys Ala Leu Met Asn Glu Lys Ala Gln Ala
 50 55 60
 Ala Leu Val Glu Phe Val Glu Asp Val Asn His Ala Ala Ile Pro Arg
 65 70 75 80
 Glu Ile Pro Gly Lys Asp Gly Val Trp Arg Val Leu Trp Lys Asp Arg
 85 90 95
 Ala Gln Asp Thr Arg Val Leu Arg Gln Met Arg Arg Leu Leu Leu Asp
 100 105 110
 Asp Gly Pro Thr Gln Ala Ala Glu Ala Gly Thr Pro Gly Glu Ala Pro
 115 120 125
 Thr Pro Pro Ala Ser Glu Thr Gln Ala Gln Asp Ser Gly Glu Val Thr
 130 135 140
 Gly Gln Ala Gly Ser Leu Leu Gly Ala Ala Arg Asn Pro Arg Arg Gly
 145 150 155 160
 Arg Arg Gly Arg Arg Asn Arg Thr Arg Arg Asn Arg Leu Thr Gln Lys
 165 170 175
 Gly Lys Lys Arg Ser Arg Gly Gly Arg Pro Ser Ala Pro Ala Arg Ser
 180 185 190
 Glu Ala Glu Asp Ser Ser Asp Glu Ser Leu Gly Ile Val Ile Glu Glu
 195 200 205

Ile Asp Gln Gly Asp Leu Ser Gly Glu Glu Asp Gln Ser Ala Leu Tyr
 210 215 220
 Ala Thr Leu Gln Ala Ala Ala Arg Glu Leu Val Arg Gln Trp Ala Pro
 225 230 235 240
 Cys Asn Ser Glu Gly Ala Cys Pro Thr Cys Pro Trp Glu Gly Ile Gly
 245 250 255
 Gly Phe Gly Cys Asp Leu Thr Val Gln Thr Arg Leu Ser Gln Ser Tyr
 260 265 270
 Val Arg Asp Thr Gln Met
 275

<210> 2522

<211> 518

<212> PRT

<213> Homo sapiens

<400> 2522

Met Val Gln Leu Val Leu Gln Tyr Arg Asp Tyr Gln Arg Ala Thr Gln
 1 5 10 15
 Arg Leu Ala Gly Ile Pro Glu Leu Leu Asn Lys Leu Arg Gln Ala Pro
 20 25 30
 Asp Phe Tyr Val Glu Met Lys Trp Glu Phe Thr Ser Trp Val Pro Leu
 35 40 45
 Val Ser Lys Met Cys Pro Ser Asp Val Tyr Arg Val Trp Lys Arg Gly
 50 55 60
 Glu Ser Leu Arg Val Asp Thr Ser Leu Leu Gly Phe Glu His Val Thr
 65 70 75 80
 Trp Gln Arg Gly Arg Arg Ser Phe Ile Phe Lys Gly Gln Glu Ala Gly

85	90	95
Ala Leu Val Met Glu Val Asp His Asp Arg Gln Val Val His Val Glu		
100	105	110
Thr Leu Gly Leu Thr Leu Gln Glu Pro Glu Thr Leu Leu Ala Ala Met		
115	120	125
Arg Pro Ser Glu Glu His Val Ala Ser Arg Leu Thr Ser Pro Ile Val		
130	135	140
Ser Thr His Leu Asp Thr Arg Asn Val Ala Phe Glu Arg Asn Lys Cys		
145	150	155
Gly Ile Trp Gly Trp Arg Ser Glu Lys Met Glu Thr Val Ser Gly Tyr		
165	170	175
Glu Ala Lys Val Tyr Ser Ala Thr Asn Val Glu Leu Val Thr Arg Thr		
180	185	190
Arg Thr Glu His Leu Ser Asp Gln Asp Lys Ser Arg Ser Lys Ala Gly		
195	200	205
Lys Thr Pro Phe Gln Ser Phe Leu Gly Met Ala Gln Gln His Ser Ser		
210	215	220
His Thr Gly Ala Pro Val Gln Gln Ala Ala Ser Pro Thr Asn Pro Thr		
225	230	235
Ala Ile Ser Pro Glu Glu Tyr Phe Asp Pro Asn Phe Ser Leu Glu Ser		
245	250	255
Arg Asn Ile Gly Arg Pro Ile Glu Met Ser Ser Lys Val Gln Arg Phe		
260	265	270
Lys Ala Thr Leu Trp Leu Ser Glu Glu His Pro Leu Ser Leu Gly Asp		
275	280	285
Gln Val Thr Pro Ile Ile Asp Leu Met Ala Ile Ser Asn Ala His Phe		
290	295	300
Ala Lys Leu Arg Asp Phe Ile Thr Leu Arg Leu Pro Pro Gly Phe Pro		
305	310	315
		320

Val Lys Ile Glu Ile Pro Leu Phe His Val Leu Asn Ala Arg Ile Thr
325 330 335
Phe Ser Asn Leu Cys Gly Cys Asp Glu Pro Leu Ser Ser Val Trp Val
340 345 350
Pro Ala Pro Ser Ser Ala Val Ala Ala Ser Gly Asn Pro Phe Pro Cys
355 360 365
Glu Val Asp Pro Thr Val Phe Glu Val Pro Asn Gly Tyr Ser Val Leu
370 375 380
Gly Met Glu Arg Asn Glu Pro Leu Arg Asp Glu Asp Asp Asp Leu Leu
385 390 395 400
Gln Phe Ala Ile Gln Gln Ser Leu Leu Glu Ala Gly Thr Glu Ala Glu
405 410 415
Gln Val Thr Val Trp Glu Ala Leu Thr Asn Thr Arg Pro Gly Ala Arg
420 425 430
Pro Pro Pro Gln Ala Thr Val Tyr Glu Glu Gln Leu Gln Leu Glu Arg
435 440 445
Ala Leu Gln Glu Ser Leu Gln Leu Ser Thr Glu Pro Arg Gly Pro Gly
450 455 460
Ser Pro Pro Arg Thr Pro Pro Ala Pro Gly Pro Pro Ser Phe Glu Glu
465 470 475 480
Gln Leu Arg Leu Ala Leu Glu Leu Ser Ser Arg Glu Gln Glu Glu Arg
485 490 495
Glu Arg Arg Gly Gln Gln Glu Glu Glu Asp Leu Gln Arg Ile Leu Gln
500 505 510
Leu Ser Leu Thr Glu His
515

<210> 2523

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2523

Met Thr Ala Pro Ala Arg Arg Ser Arg Ser Leu Arg Pro Gly Met Trp

1 5 10 15

Ser Pro Lys Glu Trp Trp Glu Pro Gln Pro Gly Arg Asp Ala Ala Ala

20 25 30

Ala Arg Ala Arg Ser Pro Tyr Pro Gly His Leu Trp Lys Pro Ala His

35 40 45

Leu Leu His Gln Pro Phe Pro Asn Thr Val Val Pro Pro Leu Pro Ser

50 55 60

Leu Leu Lys Asn Arg Ile Val Trp Gly Ser Gly Ile Phe Trp Thr Pro

65 70 75 80

Gly Thr Pro Ile Arg Leu Pro Leu Val Pro Leu Leu Gln Ser Asn Glu

85 90 95

Val Cys Phe Gly Phe Val Tyr

100

<210> 2524

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2524

Met Gly Thr Arg Ser Phe Cys Pro Ile Met Gly Thr Arg Ser Phe Cys

1 5 10 15

Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asn His Trp Ala His Ala
 20 25 30
 Pro Ser Ala Arg Ser Leu Gly Ser Arg Ser Phe Cys Pro Ile Leu Gly
 35 40 45
 Ala Arg Ser Phe Cys Pro Ile Val Gly Arg Thr Leu Leu Leu Pro Asp
 50 55 60
 Arg Trp Ala His Ala Pro Ser Ala Arg Ser Leu Gly Ala Arg Ser Phe
 65 70 75 80
 Cys Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asp Arg Trp Ala His
 85 90 95
 Ala Pro Ser Ala Arg Ser Leu Gly Ala Arg Phe Phe Cys Leu Ile Val
 100 105 110
 Gly Arg Thr Leu Leu Leu Pro Asp Arg Trp Ala His Ala Pro Ser Ala
 115 120 125

<210> 2525

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2525

Met Ala Ser Gln Pro Glu Ala Thr Ala Gly His His Leu Gly Pro Ala
 1 5 10 15
 Ser Pro Pro Thr Arg Gly Arg Gln Ser Pro Pro Ser Leu Val Gly Asp
 20 25 30
 Gly Asn Arg Ala Cys Cys Cys His Leu Ala Ala Asn Ser Gly Asn Glu
 35 40 45
 Ser Arg His Ala His Tyr Pro Ala Thr Leu Pro Ile Leu Thr Leu Tyr

50 55 60
 Val Lys Gln Asn Ser Arg Phe Arg Ser Glu Leu Ser Glu Gly Val Val
 65 70 75 80
 Pro Val Leu Leu Val Gly Lys Leu Arg Leu Arg Glu Ala Glu Asp Leu
 85 90 95
 Pro Lys Ile Thr Pro Pro Gly Pro Arg Ile Gln Ala Gln Ala Cys Pro
 100 105 110
 Gly Ser Leu Trp Pro Pro Gly Cys Glu Glu Ala Ala Arg Asp Gln Val
 115 120 125
 Pro Pro Phe
 130

<210> 2526

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2526

Met Asp Phe Lys Val Gly Ala Asp Gly Thr Val Phe Ala Ala Arg Glu
 1 5 10 15
 Leu Gln Val Pro Ser Glu Gln Val Ala Phe Thr Val Thr Ala Trp Asp
 20 25 30
 Ser Gln Thr Ala Glu Lys Trp Asp Ala Val Val Arg Leu Leu Val Ala
 35 40 45
 Gln Thr Ser Ser Pro His Ser Gly His Lys Pro Gln Lys Gly Lys Lys
 50 55 60
 Val Val Ala Leu Asp Pro Ser Pro Pro Pro Lys Asp Thr Leu Leu Pro
 65 70 75 80

Trp Pro Gln His Gln Asn Ala Asn Gly Leu Arg Arg Arg Lys Arg Asp
 85 90 95
 Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro Phe
 100 105 110
 Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile Pro
 115 120 125
 Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met Glu
 130 135 140
 Val Phe Ser Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg Pro
 145 150 155 160
 Met Asp Arg Glu Glu His Ala Ser Tyr His Leu Arg Ala His Ala Val
 165 170 175
 Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile Tyr
 180 185 190
 Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe Ile Asn Gln Val Tyr
 195 200 205
 Asn Gly Ser Val Asp Glu Gly Ser Lys Pro Gly Thr Tyr Val Met Thr
 210 215 220
 Val Thr Ala Asn Asp Ala Asp Asp Ser Thr Thr Ala Asn Gly Met Val
 225 230 235 240
 Arg Tyr Arg Ile Val Thr Gln Thr Pro Gln Ser Pro Ser Gln Asn Met
 245 250 255
 Phe Thr Ile Asn Ser Glu Thr Gly Asp Ile Val Thr Val Ala Ala Gly
 260 265 270
 Leu Asp Arg Glu Lys Val Gln Gln Tyr Thr Val Ile Val Gln Ala Thr
 275 280 285
 Asp Met Glu Gly Asn Leu Asn Tyr Gly Leu Ser Asn Thr Ala Thr Ala
 290 295 300
 Ile Ile Thr Val Thr Asp Val Asn Asp Asn Pro Pro Glu Phe Thr Ala

305 310 315 320
Ser Thr Phe Ala Gly Glu Val Pro Glu Asn Arg Val Glu Thr Val Val
 325 330 335
Ala Asn Leu Thr Val Met Asp Arg Asp Gln Pro His Ser Pro Asn Trp
 340 345 350
Asn Ala Val Tyr Arg Ile Ile Ser Gly Asp Pro Ser Gly His Phe Ser
 355 360 365
Val Arg Thr Asp Pro Val Thr Asn Glu Gly Met Val Thr Val Val Lys
 370 375 380
Ala Val Asp Tyr Glu Leu Asn Arg Ala Phe Met Leu Thr Val Met Val
385 390 395 400
Ser Asn Gln Ala Pro Leu Ala Ser Gly Ile Gln Met Ser Phe Gln Ser
 405 410 415
Thr Ala Gly Val Thr Ile Ser Ile Met Asp Ile Ser Glu Ala Pro Tyr
 420 425 430
Phe Pro Ser Asn His Lys Leu Ile Arg Leu Glu Glu Gly Val Pro Pro
 435 440 445
Gly Thr Val Leu Thr Thr Phe Ser Ala Val Asp Pro Asp Arg Phe Met
 450 455 460
Gln Arg Ala Val Arg Tyr Ser Lys Leu Ser Asp Pro Ala Ser Trp Leu
465 470 475 480
His Ile Asn Ala Thr Asn Gly Gln Ile Thr Thr Ala Ala Val Leu Asp
 485 490 495
Arg Glu Ser Leu Tyr Thr Lys Asn Asn Val Tyr Glu Ala Thr Phe Leu
 500 505 510
Ala Ala Asp Asn Gly Ile Pro Pro Ala Ser Gly Thr Gly Thr Leu Gln
 515 520 525
Ile Tyr Leu Ile Asp Ile Asn Asp Asn Ala Pro Glu Leu Leu Pro Lys
 530 535 540

Glu Ala Gln Ile Cys Glu Lys Pro Asn Leu Asn Ala Ile Asn Ile Thr
545 550 555 560
Ala Ala Asp Ala Asp Val Asp Pro Asn Ile Gly Pro Tyr Val Phe Glu
 565 570 575
Leu Pro Phe Val Pro Ala Ala Val Arg Lys Asn Trp Thr Ile Thr Arg
 580 585 590
Leu Asn Gly Asp Tyr Ala Gln Leu Ser Leu Arg Ile Leu Tyr Leu Glu
 595 600 605
Ala Gly Met Tyr Asp Val Pro Ile Ile Val Thr Asp Ser Gly Asn Pro
 610 615 620
Pro Leu Ser Asn Thr Ser Ile Ile Lys Val Lys Val Cys Pro Cys Asp
625 630 635 640
Asp Asn Gly Asp Cys Thr Thr Ile Gly Ala Val Ala Ala Ala Gly Leu
 645 650 655
Gly Thr Gly Ala Ile Val Ala Ile Leu Ile Cys Ile Leu Ile Leu Leu
 660 665 670
Thr Met Val Leu Leu Phe Val Met Trp Met Lys Arg Arg Glu Lys Glu
 675 680 685
Arg His Thr Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg Asp
 690 695 700
Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp
705 710 715 720
Tyr Asp Leu Ser Gln Leu Gln Gln Pro Glu Ala Met Gly His Val Pro
 725 730 735
Ser Lys Ala Pro Gly Val Arg Arg Val Asp Glu Arg Pro Val Gly Ala
 740 745 750
Glu Pro Gln Tyr Pro Ile Arg Pro Met Val Pro His Pro Gly Asp Ile
 755 760 765
Gly Asp Phe Ile Asn Glu Gly Leu Arg Ala Ala Asp Asn Asp Pro Thr

770	775	780
Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser Gly		
785	790	795
Ser Thr Ala Gly Ser Val Ser Ser Leu Asn Ser Ser Ser Ser Gly Asp		
805	810	815
Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys Lys Leu		
820	825	830
Ala Asp Met Tyr Gly Gly Gly Glu Glu Asp		
835	840	

<210> 2527

<211> 230

<212> PRT

<213> Homo sapiens

<400> 2527

Met His Ala Ala Ala His Pro Gly Leu Cys Pro Leu Arg Leu Cys His
1 5 10 15
Asp Thr Ala Asp Arg Ala Gly Glu Ala Ala Pro Ala Leu Lys Val Ala
20 25 30
Ala Ala Phe Arg Ala Gly Trp Arg Asp Leu Pro His Ser Pro Thr Leu
35 40 45
Gly Leu Arg Gly Pro Gly Lys Pro Leu Gln Glu Gly Thr Arg Ser Ser
50 55 60
Ser Gly Phe Trp Ser Gly Val Pro Ala Ala Ala Glu Ala Ser Gly Gly
65 70 75 80
Asn Thr Thr Lys Lys Gly Arg Gln Leu Gly Pro Ser Lys Gly Val Ala
85 90 95

Thr Arg Ala Gln Gln Pro Arg Ser Val Thr Ala Gln Ser Ser Ala Pro
 100 105 110
 Ala Phe Pro Ser Leu Cys Gln Gly Leu Met Ala Lys Pro Ala Leu Gly
 115 120 125
 Ala Phe Phe Pro Val Pro Ile Trp Leu Leu Cys Cys Thr Lys Leu Gly
 130 135 140
 Ser Gln Pro Ala Lys Ser Arg Leu Gly Leu Ala Ser Pro Leu Ala Gly
 145 150 155 160
 Leu Glu Val Gly Arg Val Gly Cys Gly Ala Ser Ser Leu Cys Val Gly
 165 170 175
 Pro Gly Arg Trp Leu Lys Ser Pro Leu Gln Glu Arg Ile Lys Val Ser
 180 185 190
 Arg Val Val Arg Lys Pro Glu Ser Gly Ser Pro Asp Ser Ser Leu Trp
 195 200 205
 Gly Ala Phe Phe Met Phe Ser Gln Leu Phe Gln Asp Trp Ala Val Glu
 210 215 220
 Phe His Val Ser Gly Ala
 225 230

<210> 2528

<211> 473

<212> PRT

<213> Homo sapiens

<400> 2528

Met Ala Leu Lys Asp Thr Gly Ser Gly Gly Ser Thr Ile Leu Pro Ile
 1 5 10 15
 Ser Glu Met Val Ser Ser Ser Ser Ser Pro Gly Ala Ser Ala Ala Ala

20	25	30
Ala Pro Gly Pro Cys Ala Pro Ser Pro Phe Pro Glu Val Val Glu Leu		
35	40	45
Asn Val Gly Gly Gln Val Tyr Val Thr Lys His Ser Thr Leu Leu Ser		
50	55	60
Val Pro Asp Ser Thr Leu Ala Ser Met Phe Ser Pro Ser Ser Pro Arg		
65	70	75
Gly Gly Ala Arg Arg Arg Gly Glu Leu Pro Arg Asp Ser Arg Ala Arg		
85	90	95
Phe Phe Ile Asp Arg Asp Gly Phe Leu Phe Arg Tyr Val Leu Asp Tyr		
100	105	110
Leu Arg Asp Lys Gln Leu Ala Leu Pro Glu His Phe Pro Glu Lys Glu		
115	120	125
Arg Leu Leu Arg Glu Ala Glu Tyr Phe Gln Leu Thr Asp Leu Val Lys		
130	135	140
Leu Leu Ser Pro Lys Val Thr Lys Gln Asn Ser Leu Asn Asp Glu Gly		
145	150	155
Cys Gln Ser Asp Leu Glu Asp Asn Val Ser Gln Gly Ser Ser Asp Ala		
165	170	175
Leu Leu Leu Arg Gly Ala Ala Ala Ala Val Pro Ser Gly Pro Gly Ala		
180	185	190
His Gly Gly Gly Gly Gly Gly Gly Ala Gln Asp Lys Arg Ser Gly Phe		
195	200	205
Leu Thr Leu Gly Tyr Arg Gly Ser Tyr Thr Thr Val Arg Asp Asn Gln		
210	215	220
Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Met Val Cys Gly Arg		
225	230	235
Ile Ala Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser Arg		
245	250	255

Asp Pro Asp Arg Gln Pro Glu Lys Tyr Thr Ser Arg Phe Tyr Leu Lys
 260 265 270
 Phe Thr Tyr Leu Glu Gln Ala Phe Asp Arg Leu Ser Glu Ala Gly Phe
 275 280 285
 His Met Val Ala Cys Asn Ser Ser Gly Thr Ala Ala Phe Val Asn Gln
 290 295 300
 Tyr Arg Asp Asp Lys Ile Trp Ser Ser Tyr Thr Glu Tyr Ile Phe Phe
 305 310 315 320
 Arg Pro Pro Gln Lys Ile Val Ser Pro Lys Gln Glu His Glu Asp Arg
 325 330 335
 Lys His Asp Lys Val Thr Asp Lys Gly Ser Glu Ser Gly Thr Ser Cys
 340 345 350
 Asn Glu Leu Ser Thr Ser Ser Cys Asp Ser His Ser Glu Ala Ser Thr
 355 360 365
 Pro Gln Asp Asn Pro Ser Ser Ala Gln Gln Ala Thr Ala His Gln Pro
 370 375 380
 Asn Thr Leu Thr Leu Asp Arg Pro Ser Lys Lys Ala Pro Val Gln Trp
 385 390 395 400
 Ile Pro Pro Pro Asp Lys Arg Arg Asn Ser Glu Leu Phe Gln Thr Leu
 405 410 415
 Ile Ser Lys Ser Arg Glu Thr Asn Leu Ser Lys Lys Lys Val Cys Glu
 420 425 430
 Lys Leu Ser Val Glu Glu Glu Met Lys Lys Cys Ile Gln Asp Phe Lys
 435 440 445
 Lys Ile His Ile Pro Asp Tyr Phe Pro Glu Arg Lys Arg Gln Trp Gln
 450 455 460
 Ser Glu Leu Leu Gln Lys Tyr Gly Leu
 465 470

<210> 2529

<211> 230

<212> PRT

<213> Homo sapiens

<400> 2529

Met Asp Val Gly Phe Gln Gly Arg Cys Ser Arg Trp Ser Arg Ala Leu

1 5 10 15

Arg Gly Arg Tyr Ser Ser Ala Glu Arg Lys Arg Arg Ala Arg Gln Pro

20 25 30

Arg Glu Pro Arg Glu Gln Ala Pro Arg Val Ser Ala Pro Pro Gly Arg

35 40 45

Leu Pro Ala Phe Phe Pro Gln Phe Ala Leu Leu Pro Gln Ser Gly Pro

50 55 60

Arg Leu Ile Leu Cys Thr Cys Glu Trp Ala His Thr Ser Ser Pro Gly

65 70 75 80

Thr Ile Leu Ser Ser Ile Ser Leu Gly Glu Ser Thr Phe Leu Thr Ile

85 90 95

Asn Leu Leu Ala Thr Ala Gly Lys Val Ala Gly Cys Glu Trp Gly Gly

100 105 110

Glu Gly Arg Phe Thr Arg Ser Glu Ala Pro Lys Leu Ala Ala Ser Ala

115 120 125

Lys Arg Leu Cys Phe Leu Arg Phe Leu Thr Asn Lys Trp Gly Gly Met

130 135 140

Leu Ala Trp Pro Pro Ala Ala Pro Ala Arg Ala Leu Gly Ser Leu Ser

145 150 155 160

Ser Leu Met Pro Ser Phe Arg Arg Ser Pro Ala Ala Leu Thr Pro Gly

165 170 175

Leu Leu Arg Pro Leu Ala Lys Val Cys Ser Pro Met Asp Ala Gly Arg
 180 185 190
 Gly Leu Ser Leu Ser Ala Leu Thr Gln Leu Arg Leu Lys Pro Gln Ser
 195 200 205
 Ser His Leu Leu Pro Pro Val Tyr Pro Pro Ala Pro Leu Pro Pro Pro
 210 215 220
 Lys Asp Val Pro Leu Gln
 225 230

<210> 2530

<211> 602

<212> PRT

<213> Homo sapiens

<400> 2530

Met Glu Ser His Ser Arg Ala Gly Lys Ser Arg Lys Ser Ala Lys Phe
 1 5 10 15
 Arg Ser Ile Ser Arg Ser Leu Met Leu Cys Asn Ala Lys Thr Ser Asp
 20 25 30
 Asp Gly Ser Ser Pro Asp Glu Lys Tyr Pro Asp Pro Phe Glu Ile Ser
 35 40 45
 Leu Ala Gln Gly Lys Glu Gly Ile Phe His Ser Ser Val Gln Leu Ala
 50 55 60
 Asp Thr Ser Glu Ala Gly Pro Ser Ser Val Pro Asp Leu Ala Leu Ala
 65 70 75 80
 Ser Glu Ala Ala Gln Leu Gln Ala Ala Gly Asn Asp Arg Gly Lys Thr
 85 90 95
 Cys Arg Arg Ile Phe Phe Met Lys Glu Ser Ser Thr Ala Ser Ser Arg

100 105 110
Glu Lys Pro Gly Lys Leu Glu Ala Gln Ser Ser Asn Phe Leu Phe Pro
115 120 125
Lys Ala Cys His Gln Arg Ala Arg Ser Asn Ser Thr Ser Val Asn Pro
130 135 140
Tyr Cys Thr Arg Glu Ile Asp Phe Pro Met Thr Lys Lys Ser Ala Ala
145 150 155 160
Pro Thr Asp Arg Gln Pro Tyr Ser Leu Cys Ser Asn Arg Lys Ser Leu
165 170 175
Ser Gln Gln Leu Asp Cys Pro Ala Gly Lys Ala Ala Gly Thr Ser Arg
180 185 190
Pro Thr Arg Ser Leu Ser Thr Ala Gln Leu Val Gln Pro Ser Gly Gly
195 200 205
Leu Gln Ala Ser Val Ile Ser Asn Ile Val Leu Met Lys Gly Gln Ala
210 215 220
Lys Gly Leu Gly Phe Ser Ile Val Gly Gly Lys Asp Ser Ile Tyr Gly
225 230 235 240
Pro Ile Gly Ile Tyr Val Lys Thr Ile Phe Ala Gly Gly Ala Ala Ala
245 250 255
Ala Asp Gly Arg Leu Gln Glu Gly Asp Glu Ile Leu Glu Leu Asn Gly
260 265 270
Glu Ser Met Ala Gly Leu Thr His Gln Asp Ala Leu Gln Lys Phe Lys
275 280 285
Gln Ala Lys Lys Gly Leu Leu Thr Leu Thr Val Arg Thr Arg Leu Thr
290 295 300
Ala Pro Pro Ser Leu Cys Ser His Leu Ser Pro Pro Leu Cys Arg Ser
305 310 315 320
Leu Ser Ser Ser Thr Cys Ile Thr Lys Asp Ser Ser Ser Phe Ala Leu
325 330 335

Glu Ser Pro Ser Ala Pro Ile Ser Thr Ala Lys Pro Asn Tyr Arg Ile
340 345 350
Met Val Glu Val Ser Leu Gln Lys Glu Ala Gly Val Gly Leu Gly Ile
355 360 365
Gly Leu Cys Ser Val Pro Tyr Phe Gln Cys Ile Ser Gly Ile Phe Val
370 375 380
His Thr Leu Ser Pro Gly Ser Val Ala His Leu Asp Gly Arg Leu Arg
385 390 395 400
Cys Gly Asp Glu Ile Val Glu Ile Ser Asp Ser Pro Val His Cys Leu
405 410 415
Thr Leu Asn Glu Val Tyr Thr Ile Leu Ser His Cys Asp Pro Gly Pro
420 425 430
Val Pro Ile Ile Val Ser Arg His Pro Asp Pro Gln Val Ser Glu Gln
435 440 445
Gln Leu Lys Glu Ala Val Ala Gln Ala Val Glu Asn Thr Lys Phe Gly
450 455 460
Lys Glu Arg His Gln Trp Ser Leu Glu Gly Val Lys Arg Leu Glu Ser
465 470 475 480
Ser Trp His Gly Arg Pro Thr Leu Glu Lys Glu Arg Glu Lys Asn Ser
485 490 495
Ala Pro Pro His Arg Arg Ala Gln Lys Val Met Thr Arg Ser Ser Ser
500 505 510
Asp Ser Ser Tyr Met Ser Gly Ser Pro Gly Gly Ser Pro Gly Ser Gly
515 520 525
Ser Ala Glu Lys Pro Ser Ser Asp Val Asp Ile Ser Thr His Ser Pro
530 535 540
Ser Leu Pro Leu Ala Arg Glu Pro Val Val Leu Ser Ile Ala Ser Ser
545 550 555 560
Arg Leu Pro Gln Glu Ser Pro Pro Leu Pro Glu Ser Arg Asp Ser His

	565		570		575
Pro	Pro	Leu	Arg	Leu	Lys
			Lys	Ser	Phe
			Glu	Ile	Leu
			Val	Arg	Lys
			Pro		
	580		585		590
Met	Ser	Asn	Ile	Ala	Arg
			Pro	Arg	Ser
			Pro		
	595		600		

<210> 2531

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2531

Met	His	Thr	His	Lys	His	Met	Cys	Ile	Ser	His	Thr	Arg	Thr	His	Pro
1				5					10					15	
Asn	Thr	Cys	Ile	Ser	His	Thr	Cys	Thr	His	Thr	Asn	Thr	Cys	Ile	Ser
				20				25					30		
His	Thr	Cys	Thr	Gln	Thr	Cys	Ile	Ser	His	Thr	Arg	Thr	His	Thr	Gln
				35				40					45		
Thr	Arg	Ala	Tyr	His	Thr	His	Ala	His	Thr	Gln	Thr	Arg	Ala	Tyr	His
				50				55					60		
Thr	Gln	Thr	His	Val	His	Thr	Tyr	Leu	Thr	His	Thr	Cys	Thr	Cys	Cys
				65				70				75		80	
Ala	His	Val	His	Thr	His	Val	Val	Val	Cys	Phe	Pro	Ala	Thr	His	Thr
				85					90				95		
Leu	Gly	Leu	His	Trp	Arg	Leu	Phe	His	Pro	Ala	Asn	Val	Asn	Val	Ser
				100				105					110		
Arg	Leu	Val	Gly	Ala	Leu	Cys	Tyr	Pro	Val	Gly	Arg	Ser	His	Gln	Glu
				115				120					125		

Gln Ser Leu Pro Asn Val His Leu Arg Glu Glu Gly Cys Arg Gly Val

130

135

140

Phe Pro Ala Pro Ala Arg Trp Lys Gly Ser Pro Glu Thr Gly Thr Gln

145

150

155

160

Tyr Leu Ser Met Arg Ser Leu Thr Ser Arg Gly Val Gly Lys Leu Asp

165

170

175

Arg Asp Ser Val Thr His Ser Val Leu Leu Pro Ala Asn Pro Val Cys

180

185

190

Pro Tyr Arg Ser Thr Arg Arg Ala Val Gly Gly Pro Pro Gly Gly Ser

195

200

205

Ala Ser Ala Ser Pro Ser His Leu Leu Pro

210

215

<210> 2532

<211> 140

<212> PRT

<213> Homo sapiens

<400> 2532

Met Arg Gln Val Leu Arg Pro Val Phe Gln Val Leu Thr Gly Ala Leu

1

5

10

15

Gly Ala His Arg Arg Glu Tyr Gly Ser Ala Ala Thr Gly Thr Val His

20

25

30

Leu Pro Val Cys Gln Ala Gln Ser Met Asp Lys Pro His Ser Arg Ala

35

40

45

Val His Pro Gly Thr Met His Gly Gln Gln Glu Ser Arg Pro Ala Asp

50

55

60

Ala Lys Arg Ala Tyr Cys Gln Gly Lys Val Pro Ala Pro Ala His Ser

65	70	75	80
Leu Trp Ile Leu Gly Leu Trp Gly Leu Ser Trp Arg Val Ser Leu Trp			
	85	90	95
Phe Val Ser Gly Leu Gln Trp Trp Leu Thr Pro Leu Val Arg Lys His			
	100	105	110
Ser Trp Glu Val Phe Cys Gly Ser Lys His Val Ala Pro Ile Ile Thr			
	115	120	125
Gly Glu Gln Lys Ala Leu Asp Thr Pro Phe Gly Met			
	130	135	140

<210> 2533

<211> 339

<212> PRT

<213> Homo sapiens

<400> 2533

Met Glu Lys Gly Arg Leu Ser Val Gly Asp His Val Ala Leu Val Tyr			
1	5	10	15
Pro Pro Gly Val Asp Leu Ile Ala Ala Phe Tyr Gly Cys Leu Tyr Cys			
	20	25	30
Gly Cys Val Pro Val Thr Val Arg Pro Pro His Pro Gln Asn Leu Gly			
	35	40	45
Thr Thr Leu Pro Thr Val Lys Met Ile Val Glu Val Gly Lys Ser Ala			
	50	55	60
Cys Val Leu Thr Thr Gln Ala Val Thr Arg Leu Leu Arg Ser Lys Glu			
	65	70	75
Ala Ala Ala Ala Val Asp Ile Arg Thr Trp Pro Thr Ile Leu Asp Thr			
	85	90	95

Asp Asp Ile Pro Lys Lys Lys Ile Ala Ser Val Phe Arg Pro Pro Ser
 100 105 110
 Pro Asp Val Leu Ala Tyr Leu Asp Phe Ser Val Ser Thr Thr Gly Ile
 115 120 125
 Leu Ala Gly Val Lys Met Ser His Ala Ala Thr Ser Ala Leu Cys Arg
 130 135 140
 Ser Ile Lys Leu Gln Cys Glu Leu Tyr Pro Ser Arg Gln Ile Ala Ile
 145 150 155 160
 Cys Leu Asp Pro Tyr Cys Gly Leu Gly Phe Ala Leu Trp Cys Leu Cys
 165 170 175
 Ser Val Tyr Ser Gly His Gln Ser Val Leu Val Pro Pro Leu Glu Leu
 180 185 190
 Glu Ser Asn Val Ser Leu Trp Leu Ser Ala Val Ser Gln Tyr Lys Ala
 195 200 205
 Arg Val Thr Phe Cys Ser Tyr Ser Val Met Glu Met Cys Thr Lys Gly
 210 215 220
 Leu Gly Ala Gln Thr Gly Val Leu Arg Met Lys Gly Val Asn Leu Ser
 225 230 235 240
 Cys Val Arg Thr Cys Met Val Val Ala Glu Glu Arg Pro Arg Ile Ala
 245 250 255
 Leu Thr Gln Ser Phe Ser Lys Leu Phe Lys Asp Leu Gly Leu Pro Ala
 260 265 270
 Arg Ala Val Ser Thr Thr Phe Gly Cys Arg Val Asn Val Ala Ile Cys
 275 280 285
 Leu Gln Val Arg Cys Leu Gly Pro Ala Val Leu Glu Ser Trp Leu Leu
 290 295 300
 Ala Ala Trp Arg Pro Ser Phe Pro Val Val Asn Val Pro Phe Cys Ser
 305 310 315 320
 Arg Leu Ile Tyr Phe Ser Phe Ser Gly Pro Leu Ile Ser His Phe His

325

330

335

Val Thr Phe

<210> 2534

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2534

Met Ala Glu Glu Glu Lys Pro Ala Ala Leu Pro Glu Lys Glu Cys Gly

1

5

10

15

Ala Ala Lys Ser Ser Asp Gln Pro Lys Gly Leu Ser Lys Gly Gln Met

20

25

30

Glu Ser Ser Ala Glu Ala Gln Ile Val Pro Glu Glu Ser Ala Pro Ala

35

40

45

Gly Ala Pro His Glu Lys Ser Val Lys Glu Val Lys Glu Val Ser Pro

50

55

60

Glu Val Lys Thr Pro Ser Ser Ala Gly Glu Gly Val Ser Phe Ser Gly

65

70

75

80

Phe Ala Cys Val Leu Leu Gln Met Ile Ser Pro Val Ala Tyr Gln Pro

85

90

95

Asp Ala Phe Pro Thr Leu Phe Arg Tyr Phe Ile Ala Gly Ser Tyr Asp

100

105

110

Asn Lys Ser Thr Val Val Gly Leu Met Cys Arg Glu Cys Gly Leu Arg

115

120

125

Lys Cys Cys Val Ala Ala Gly Phe Pro Val Leu Gln Leu Ile Ser Gly

130

135

140

Phe Pro Leu Pro

145

<210> 2535

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2535

Met Glu Pro Gly Pro Ala Leu Ala Trp Leu Leu Leu Leu Ser Leu Leu

1 5 10 15

Ala Asp Cys Leu Lys Ala Ala Gln Ser Arg Asp Phe Thr Val Lys Asp

20 25 30

Ile Ile Tyr Leu His Pro Ser Thr Thr Pro Tyr Pro Gly Gly Phe Lys

35 40 45

Cys Phe Thr Cys Glu Lys Ala Ala Asp Asn Tyr Glu Cys Asn Arg Trp

50 55 60

Ala Pro Asp Ile Tyr Cys Pro Arg Val Thr Arg Tyr Cys Tyr Thr Gln

65 70 75 80

His Thr Met Glu Val Thr Gly Asn Ser Ile Ser Val Thr Lys Arg Cys

85 90 95

Val Pro Leu Glu Glu Cys Leu Ser Thr Gly Cys Arg Asp Ser Glu His

100 105 110

Glu Gly His Lys Val Cys Thr Ser Cys Cys Glu Gly Asn Ile Cys Asn

115 120 125

Leu Pro Leu Pro Arg Asn Glu Thr Asp Ala Thr Phe Ala Thr Thr Ser

130 135 140

Pro Ile Asn Gln Thr Asn Gly His Pro Arg Cys Met Ser Val Ile Val

145 150 155 160
Ser Cys Leu Trp Leu Trp Leu Gly Leu Met Leu
 165 170

<210> 2536

<211> 881

<212> PRT

<213> Homo sapiens

<400> 2536

Met Pro Asn Ser Ala Ser Arg Asp Glu Phe Pro Cys Gly Phe Thr Ser
1 5 10 15
Pro Ala Asn Arg Gly Ser Leu Ser Thr Asp Lys Asp Thr Ala Tyr Gly
 20 25 30
Ser Phe Gln Asn Gly His Gly Ile Lys Arg Glu Asp Ser Arg Gly Ser
 35 40 45
Leu Ile Pro Glu Gly Ala Thr Gly Phe Pro Asp Gln Gly Asn Thr Gly
 50 55 60
Glu Asn Thr Arg Gln Ser Ser Thr Arg Ser Ser Val Ser Gln Tyr Asn
65 70 75 80
Arg Leu Asp Gln Tyr Glu Ile Arg Ser Leu Leu Met Cys Tyr Leu Tyr
 85 90 95
Ile Val Lys Met Ile Ser Glu Asp Thr Leu Leu Thr Tyr Trp Asn Lys
 100 105 110
Val Ser Pro Gln Glu Leu Ile Asn Ile Leu Ile Leu Leu Glu Val Cys
 115 120 125
Leu Phe His Phe Arg Tyr Met Gly Lys Arg Asn Ile Ala Arg Val His
130 135 140

Asp Ala Trp Leu Ser Lys His Phe Gly Ile Asp Arg Lys Ser Gln Thr
 145 150 155 160
 Met Pro Ala Leu Arg Asn Arg Ser Gly Val Met Gln Ala Arg Leu Gln
 165 170 175
 His Leu Ser Ser Leu Glu Ser Ser Phe Thr Leu Asn His Ser Ser Thr
 180 185 190
 Thr Thr Glu Ala Asp Ile Phe His Gln Ala Leu Leu Glu Gly Asn Thr
 195 200 205
 Ala Thr Glu Val Ser Leu Thr Val Leu Asp Thr Ile Ser Phe Phe Thr
 210 215 220
 Gln Cys Phe Lys Thr Gln Leu Leu Asn Asn Asp Gly His Asn Pro Leu
 225 230 235 240
 Met Lys Lys Val Phe Asp Ile His Leu Ala Phe Leu Lys Asn Gly Gln
 245 250 255
 Ser Glu Val Ser Leu Lys His Val Phe Ala Ser Leu Arg Ala Phe Ile
 260 265 270
 Ser Lys Phe Pro Ser Ala Phe Phe Lys Gly Arg Val Asn Met Cys Ala
 275 280 285
 Ala Phe Cys Tyr Glu Val Leu Lys Cys Cys Thr Ser Lys Ile Ser Ser
 290 295 300
 Thr Arg Asn Glu Ala Ser Ala Leu Leu Tyr Leu Leu Met Arg Asn Asn
 305 310 315 320
 Phe Glu Tyr Thr Lys Arg Lys Thr Phe Leu Arg Thr His Leu Gln Ile
 325 330 335
 Ile Ile Ala Val Ser Gln Leu Ile Ala Asp Val Ala Leu Ser Gly Gly
 340 345 350
 Ser Arg Phe Gln Glu Ser Leu Phe Ile Ile Asn Asn Phe Ala Asn Ser
 355 360 365
 Asp Arg Pro Met Lys Ala Thr Ala Phe Pro Ala Glu Val Lys Asp Leu

370	375	380
Thr Lys Arg Ile Arg Thr Val Leu Met Ala Thr Ala Gln Met Lys Glu		
385	390	395
His Glu Lys Asp Pro Glu Met Leu Ile Asp Leu Gln Tyr Ser Leu Ala		400
	405	410
Lys Ser Tyr Ala Ser Thr Pro Glu Leu Arg Lys Thr Trp Leu Asp Ser		415
	420	425
Met Ala Lys Ile His Val Lys Asn Gly Asp Phe Ser Glu Ala Ala Met		430
	435	440
Cys Tyr Val His Val Ala Ala Leu Val Ala Glu Phe Leu His Arg Lys		445
	450	455
Lys Leu Phe Pro Asn Gly Cys Ser Ala Phe Lys Lys Ile Thr Pro Asn		460
465	470	475
Ile Asp Glu Glu Gly Ala Met Lys Glu Asp Ala Gly Met Met Asp Val		480
	485	490
His Tyr Ser Glu Glu Val Leu Leu Glu Leu Leu Glu Gln Cys Val Asp		495
	500	505
Gly Leu Trp Lys Ala Glu Arg Tyr Glu Ile Ile Ser Glu Ile Ser Lys		510
	515	520
Leu Ile Val Pro Ile Tyr Glu Lys Arg Arg Glu Phe Glu Lys Leu Thr		525
	530	535
Gln Val Tyr Arg Thr Leu His Gly Ala Tyr Thr Lys Ile Leu Glu Val		540
545	550	555
Met His Thr Lys Lys Arg Leu Leu Gly Thr Phe Phe Arg Val Ala Phe		560
	565	570
Tyr Gly Gln Ser Phe Phe Glu Glu Glu Asp Gly Lys Glu Tyr Ile Tyr		575
	580	585
Lys Glu Pro Lys Leu Thr Gly Leu Ser Glu Ile Ser Leu Arg Leu Val		590
	595	600
		605

Lys Leu Tyr Gly Glu Lys Phe Gly Thr Glu Asn Val Lys Ile Ile Gln
 610 615 620
 Asp Ser Asp Lys Val Asn Ala Lys Glu Leu Asp Pro Lys Tyr Ala His
 625 630 635 640
 Ile Gln Val Thr Tyr Val Lys Pro Tyr Phe Asp Asp Lys Glu Leu Thr
 645 650 655
 Glu Arg Lys Thr Glu Phe Glu Arg Asn His Asn Ile Ser Gly Phe Val
 660 665 670
 Phe Glu Ala Pro Tyr Thr Leu Ser Gly Lys Lys Gln Gly Cys Ile Glu
 675 680 685
 Glu Gln Cys Lys Arg Arg Thr Ile Leu Thr Thr Ser Asn Ser Phe Pro
 690 695 700
 Tyr Val Lys Lys Arg Ile Pro Ile Asn Cys Glu Gln Gln Ile Asn Leu
 705 710 715 720
 Lys Pro Ile Asp Val Ala Thr Asp Glu Ile Lys Asp Lys Thr Ala Glu
 725 730 735
 Leu Gln Lys Leu Cys Ser Ser Thr Asp Val Asp Met Ile Gln Leu Gln
 740 745 750
 Leu Lys Leu Gln Gly Cys Val Ser Val Gln Val Asn Ala Gly Pro Leu
 755 760 765
 Ala Tyr Ala Arg Ala Phe Leu Asn Asp Ser Gln Ala Ser Lys Tyr Pro
 770 775 780
 Pro Lys Lys Val Ser Glu Leu Lys Asp Met Phe Arg Lys Phe Ile Gln
 785 790 795 800
 Ala Cys Ser Ile Ala Leu Glu Leu Asn Glu Arg Leu Ile Lys Glu Asp
 805 810 815
 Gln Val Glu Tyr His Glu Gly Leu Lys Ser Asn Phe Arg Asp Met Val
 820 825 830
 Lys Glu Leu Ser Asp Ile Ile His Glu Gln Ile Leu Gln Glu Asp Thr

835	840	845
Met His Ser Pro Trp Met Ser Asn Thr Leu His Val Phe Cys Ala Ile		
850	855	860
Ser Gly Thr Ser Ser Asp Arg Gly Tyr Gly Ser Pro Arg Tyr Ala Glu		
865	870	875
Val		880

<210> 2537

<211> 580

<212> PRT

<213> Homo sapiens

<400> 2537

Met His Leu Ser Ala Val Phe Asn Ala Leu Leu Val Ser Val Leu Ala		
1	5	10
Ala Val Leu Trp Lys His Val Arg Leu Arg Glu His Ala Ala Thr Leu		
20	25	30
Glu Glu Glu Leu Ala Leu Ser Arg Gln Ala Thr Glu Pro Ala Pro Ala		
35	40	45
Leu Arg Ile Asp Tyr Pro Lys Ala Leu Gln Ile Leu Met Glu Gly Gly		
50	55	60
Thr His Met Val Cys Thr Gly Arg Thr His Thr Asp Arg Ile Cys Arg		
65	70	75
Phe Lys Trp Leu Cys Tyr Ser Asn Glu Ala Glu Glu Phe Ile Phe Phe		
85	90	95
His Gly Asn Thr Ser Val Met Leu Pro Asn Leu Gly Ser Arg Arg Phe		
100	105	110

Gln Pro Ala Leu Leu Asp Leu Ser Thr Val Glu Asp His Asn Thr Gln
 115 120 125
 Tyr Phe Asn Phe Val Glu Leu Pro Ala Ala Ala Leu Arg Phe Met Pro
 130 135 140
 Lys Pro Val Phe Val Pro Asp Val Ala Leu Ile Ala Asn Arg Phe Asn
 145 150 155 160
 Pro Asp Asn Leu Met His Val Phe His Asp Asp Leu Leu Pro Leu Phe
 165 170 175
 Tyr Thr Leu Arg Gln Phe Pro Gly Leu Ala His Glu Ala Arg Leu Phe
 180 185 190
 Phe Met Glu Gly Trp Gly Glu Gly Ala His Phe Asp Leu Tyr Lys Leu
 195 200 205
 Leu Ser Pro Lys Gln Pro Leu Leu Arg Ala Gln Leu Lys Thr Leu Gly
 210 215 220
 Arg Leu Leu Cys Phe Ser His Ala Phe Val Gly Leu Ser Lys Ile Thr
 225 230 235 240
 Thr Trp Tyr Gln Tyr Gly Phe Val Gln Pro Gln Gly Pro Lys Ala Asn
 245 250 255
 Ile Leu Val Ser Gly Asn Glu Ile Arg Gln Phe Ala Arg Phe Met Thr
 260 265 270
 Glu Lys Leu Asn Val Ser His Thr Gly Val Pro Leu Gly Glu Glu Tyr
 275 280 285
 Ile Leu Val Phe Ser Arg Thr Gln Asn Arg Leu Ile Leu Asn Glu Ala
 290 295 300
 Glu Leu Leu Leu Ala Leu Ala Gln Glu Phe Gln Met Lys Thr Val Thr
 305 310 315 320
 Val Ser Leu Glu Asp His Thr Phe Ala Asp Val Val Arg Leu Val Ser
 325 330 335
 Asn Ala Ser Met Leu Val Ser Met His Gly Ala Gln Leu Val Thr Thr

340	345	350	
Leu Phe Leu Pro Arg Gly Ala Thr Val Val Glu Leu Phe Pro Tyr Ala			
355	360	365	
Val Asn Pro Asp His Tyr Thr Pro Tyr Lys Thr Leu Ala Met Leu Pro			
370	375	380	
Gly Met Asp Leu Gln Tyr Val Ala Trp Arg Asn Met Met Pro Glu Asn			
385	390	395	400
Thr Val Thr His Pro Glu Arg Pro Trp Asp Gln Gly Gly Ile Thr His			
405	410	415	
Leu Asp Arg Ala Glu Gln Ala Arg Ile Leu Gln Ser Arg Glu Val Pro			
420	425	430	
Arg His Leu Cys Cys Arg Asn Pro Glu Trp Leu Phe Arg Ile Tyr Gln			
435	440	445	
Asp Thr Lys Val Asp Ile Pro Ser Leu Ile Gln Thr Ile Arg Arg Val			
450	455	460	
Val Lys Gly Arg Pro Gly Pro Arg Lys Gln Lys Trp Thr Val Gly Leu			
465	470	475	480
Tyr Pro Gly Lys Val Arg Glu Ala Arg Cys Gln Ala Ser Val His Gly			
485	490	495	
Ala Ser Glu Ala Arg Leu Thr Val Ser Trp Gln Ile Pro Trp Asn Leu			
500	505	510	
Lys Tyr Leu Lys Val Arg Glu Val Lys Tyr Glu Val Trp Leu Gln Glu			
515	520	525	
Gln Gly Glu Asn Thr Tyr Val Pro Tyr Ile Leu Ala Leu Gln Asn His			
530	535	540	
Thr Phe Thr Glu Asn Ile Lys Pro Phe Thr Thr Tyr Leu Val Trp Val			
545	550	555	560
Arg Cys Ile Phe Asn Lys Ile Leu Leu Gly Pro Phe Ala Asp Val Leu			
565	570	575	

Val Cys Asn Thr

580

<210> 2538

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2538

Met Ser Leu Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly

1 5 10 15

Glu Gly Gly Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp

20 25 30

Gln Ser Arg Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro

35 40 45

Leu Arg Ala Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His

50 55 60

Leu Met Gly His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser

65 70 75 80

Tyr Leu Leu Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val

85 90 95

Met Asp Gly Thr Ala Ala Ile Arg Leu

100 105

<210> 2539

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2539

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Met Ala Glu Glu Gly Ser Ala Ala Gly Gly Val Met Asp Ile Asn Thr
  1             5             10             15
Val Leu Gln Glu Val Leu Lys Thr Ala Leu Ile His Asp Gly Leu Ala
      20             25             30
Tyr Glu Ile Cys Lys Ala Ala Lys Ala Ser Asp Lys Cys Gln Ala His
      35             40             45
Leu Cys Val Leu Cys Val Leu Ala Ser Asn Cys Asp Glu Pro Met Tyr
      50             55             60
Val Lys Leu Val Glu Ala Leu Cys Ala Glu His Gln Ile Asn Leu Ile
      65             70             75             80
Lys Val Asp Asp Gln Lys Leu Gly Glu Ser Val Gly Leu Cys Lys Thr
      85             90             95
Asp Arg Glu Gly Lys Pro Cys Lys Val Val Gly
      100             105

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<210> 2540

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2540

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Met Phe Ser Val Leu Ser Tyr Gly Arg Leu Val Ala Arg Ala Val Leu
  1             5             10             15
Gly Gly Leu Ser Gln Thr Asp Pro Arg Ala Gly Gly Gly Gly Gly Gly
      20             25             30

```

Asp Tyr Gly Leu Val Thr Ala Gly Cys Gly Phe Gly Lys Asp Phe Arg
 35 40 45
 Lys Gly Leu Leu Lys Lys Gly Ala Cys Tyr Gly Asp Asp Ala Cys Phe
 50 55 60
 Val Ala Arg His Arg Ser Ala Asp Val Leu Gly Val Ala Asp Gly Val
 65 70 75 80
 Gly Gly Trp Arg Asp Tyr Gly Val Asp Pro Ser Gln Phe Ser Gly Thr
 85 90 95
 Leu Met Arg Thr Cys Glu Arg Leu Val Lys Glu Gly Arg Phe Val Pro
 100 105 110
 Ser Asn Pro Ile Gly Ile Leu Thr Thr Ser Tyr Cys Glu Leu Leu Gln
 115 120 125
 Asn Lys Val Pro Leu Leu Gly Ser Ser Thr Ala Cys Ile Val Val Leu
 130 135 140
 Asp Arg Thr Ser His Arg Leu His Thr Ala Asn Leu Gly Asp Ser Gly
 145 150 155 160
 Phe Leu Val Val Arg Gly Gly Glu Val Val His Arg Ser Asp Glu Gln
 165 170 175
 Gln His Tyr Phe Asn Thr Pro Phe Gln Leu Ser Ile Ala Pro Pro Glu
 180 185 190
 Ala Glu Gly Val Val Leu Ser Asp Ser Pro Asp Ala Ala Asp Ser Thr
 195 200 205
 Ser Phe Asp Val Gln Leu Gly Asp Ile Ile Leu Thr Ala Thr Asp Gly
 210 215 220
 Leu Phe Asp Asn Met Pro Asp Tyr Met Ile Leu Gln Glu Leu Lys Lys
 225 230 235 240
 Leu Lys Asn Ser Asn Tyr Glu Ser Ile Gln Gln Thr Ala Arg Ser Ile
 245 250 255
 Ala Glu Gln Ala His Glu Leu Ala Tyr Asp Pro Asn Tyr Met Ser Pro

260 265 270
 Phe Ala Gln Phe Ala Cys Asp Asn Gly Leu Asn Val Arg Gly Gly Lys
 275 280 285
 Pro Asp Asp Ile Thr Val Leu Leu Ser Ile Val Ala Glu Tyr Thr Asp
 290 295 300

<210> 2541

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2541

Met Lys Ser Leu Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Ser
 1 5 10 15
 Ala His Cys Asn Leu Cys Leu Leu Ser Ser Ser Asp Ser Leu Ala Ser
 20 25 30
 Ala Ser His Val Ala Gly Ile Thr Gly Ala His His Gln Thr Trp Leu
 35 40 45
 Ile Ser Ser Arg Asp Arg Val Ser Pro Cys Trp Pro Gly Trp Ser Leu
 50 55 60
 Thr Pro Asp Leu Arg Arg Ser Ala Cys Leu Gly Leu Ser Lys Cys Trp
 65 70 75 80
 Asp Tyr Arg His Glu Pro Pro Arg Thr Ala Gly Lys Gly Leu Leu Asp
 85 90 95
 Gln Asn Ile Gln
 100

<210> 2542

<211> 376

<212> PRT

<213> Homo sapiens

<400> 2542

Met Asn Thr Ile Asp Met Tyr Asn Val Thr Arg Pro Ile Glu Lys Leu

1 5 10 15

Gln Asn Pro Ile Val Thr Gln Phe Phe Pro Ser Val Met Leu Trp Gly

20 25 30

Phe Thr Val Ile Leu Pro Leu Ile Val Tyr Phe Ser Ala Phe Leu Glu

35 40 45

Ala His Trp Thr Arg Ser Ser Gln Asn Leu Val Met Val His Lys Cys

50 55 60

Tyr Ile Phe Leu Val Phe Met Val Val Ile Leu Pro Ser Met Gly Leu

65 70 75 80

Thr Ser Leu Asp Val Phe Leu Arg Trp Leu Phe Asp Ile Tyr Tyr Leu

85 90 95

Glu Gln Ala Ser Ile Arg Phe Gln Cys Val Phe Leu Pro Asp Asn Gly

100 105 110

Ala Phe Phe Val Asn Tyr Val Ile Thr Ala Ala Leu Leu Gly Thr Gly

115 120 125

Met Glu Leu Leu Arg Leu Gly Ser Leu Phe Cys Tyr Ser Thr Arg Leu

130 135 140

Phe Phe Ser Arg Ser Glu Pro Glu Arg Val Asn Ile Arg Lys Asn Gln

145 150 155 160

Ala Ile Asp Phe Gln Phe Gly Arg Glu Tyr Ala Trp Met Met Asn Val

165 170 175

Phe Ser Val Val Met Ala Tyr Ser Ile Thr Cys Pro Ile Ile Val Pro

180	185	190
Phe Gly Leu Leu Tyr Leu Cys Met Lys His Leu Ala Asp Arg Tyr Asn		
195	200	205
Met Tyr Tyr Ser Phe Ala Pro Thr Lys Leu Asn Glu Gln Ile His Met		
210	215	220
Ala Ala Val Ser Gln Ala Ile Phe Ala Pro Leu Leu Gly Leu Phe Trp		
225	230	235
Met Leu Phe Phe Ser Ile Leu Arg Leu Gly Ser Leu His Ala Ile Thr		
245	250	255
Ile Phe Ser Leu Ser Thr Leu Leu Ile Ala Met Val Ile Ala Phe Val		
260	265	270
Gly Ile Phe Leu Gly Lys Leu Arg Met Val Ala Asp Tyr Glu Pro Glu		
275	280	285
Glu Glu Glu Ile Gln Thr Val Phe Asp Met Glu Pro Ser Ser Thr Ser		
290	295	300
Ser Thr Pro Thr Ser Leu Leu Tyr Val Ala Thr Val Leu Gln Glu Pro		
305	310	315
Glu Leu Asn Leu Thr Pro Ala Ser Ser Pro Ala Arg His Thr Tyr Gly		
325	330	335
Thr Met Asn Asn Gln Pro Glu Glu Gly Glu Glu Glu Ser Gly Leu Arg		
340	345	350
Gly Phe Ala Arg Glu Leu Asp Ser Ala Gln Phe Gln Glu Gly Leu Glu		
355	360	365
Leu Glu Gly Gln Asn Gln Tyr His		
370	375	

<210> 2543

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2543

Met Lys Met Ile Leu Ala Trp Arg Leu Pro Leu Ile Tyr Pro His Val
1 5 10 15
Ser Leu Phe Ile Pro Gln Leu Ser Gly Gln Thr Asn Ile His Leu Ser
20 25 30
Lys Asn Phe Phe Leu Thr Asn Arg Ala Arg Glu Arg Ser Asp Thr Phe
35 40 45
Ile Asn Leu Arg Glu Val Leu Asn Arg Phe Lys Leu Pro Pro Gly Glu
50 55 60
Tyr Ile Leu Val Pro Ser Thr Phe Glu Pro Asn Lys Asp Gly Asp Phe
65 70 75 80
Cys Ile Arg Val Phe Ser Glu Lys Lys Ala Asp Tyr Gln Ala Val Asp
85 90 95
Asp Glu Ile Glu Ala Asn Leu Glu Glu Phe Asp Ile Ser Glu Asp Asp
100 105 110
Ile Asp Asp Gly Phe Arg Arg Leu Phe Ala Gln Leu Ala Gly Glu Asp
115 120 125
Ala Glu Ile Ser Ala Phe Glu Leu Gln Thr Ile Leu Arg Arg Val Leu
130 135 140
Ala Lys Arg Gln Asp Ile Lys Ser Asp Gly Phe Ser Ile Glu Thr Cys
145 150 155 160
Lys Ile Met Val Asp Met Leu Asp Ser Asp Gly Ser Gly Lys Leu Gly
165 170 175
Leu Lys Glu Phe Tyr Ile Leu Trp Thr Lys Ile Gln Lys Tyr Gln Val
180 185 190
Arg Ser Gln Arg Cys Gly Trp Ile Cys Val Gly Lys His Ser Val His

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Asp Ser Asp Gln Gly Ala Asn Ala Lys Phe Asn Leu Gln Leu Val Gly
145 150 155 160
Pro Arg Gly Ile Phe Arg Val Val Pro Gln Thr Val Leu Asn Glu Ala
165 170 175
Gln Val Thr Ile Ile Val Glu Asn Ser Ala Ala Ile Asp Phe Glu Lys
180 185 190
Ser Lys Val Leu Thr Phe Lys Ala Val Asp Pro Asp Thr Gly Pro Trp
195 200 205
Gly Glu Val Lys Tyr Ser Thr Tyr Gly Thr Gly Ala Asp Leu Phe Leu
210 215 220
Ile His Pro Ser Thr Gly Leu Ile Tyr Thr Gln Pro Trp Ala Ser Leu
225 230 235 240
Asp Ala Glu Ala Thr Ala Arg Tyr Asn Phe Tyr Val Lys Ala Glu Asp
245 250 255
Met Glu Gly Lys Tyr Ser Val Ala Glu Val Phe Ile Thr Leu Leu Asp
260 265 270
Val Asn Asp His Pro Pro Gln Phe Gly Lys Ser Val Gln Lys Lys Thr
275 280 285
Met Val Leu Gly Thr Pro Val Lys Ile Glu Ala Ile Asp Glu Asp Ala
290 295 300
Glu Glu Pro Asn Asn Leu Val Asp Tyr Ser Ile Thr His Ala Glu Pro
305 310 315 320
Ala Asn Val Phe Asp Ile Asn Ser His Thr Gly Glu Ile Trp Leu Lys
325 330 335
Asn Ser Ile Arg Ser Leu Asp Ala Leu His Asn Ile Thr Pro Gly Arg
340 345 350
Asp Cys Leu Trp Ser Leu Glu Val Gln Ala Lys Asp Arg Gly Ser Pro
355 360 365
Ser Phe Ser Thr Thr Ala Leu Leu Lys Ile Asp Ile Thr Asp Ala Glu

370	375	380	
Thr Leu Ser Arg Ser Pro Met Ala Ala Phe Leu Ile Gln Thr Lys Asp			
385	390	395	400
Asn Pro Met Lys Ala Val Gly Val Leu Ala Gly Thr Met Ala Thr Val			
	405	410	415
Val Ala Ile Thr Val Leu Ile Ser Thr Ala Thr Phe Trp Arg Asn Lys			
	420	425	430
Lys Ser Asn Met Val Leu Pro Met Arg Arg Val Leu Arg Lys Arg Pro			
	435	440	445
Ser Pro Ala Pro Arg Thr Ile Arg Ile Glu Trp Leu Lys Ser Lys Ser			
	450	455	460
Thr Lys Ala Ala Thr Lys Phe Met Leu Lys Glu Lys Pro Pro Asn Glu			
465	470	475	480
Asn Cys Asn Asn Asn Ser Pro Glu Ser Ser Leu Leu Pro Arg Ala Pro			
	485	490	495
Ala Leu Pro Pro Pro Pro Ser Val Ala Pro Ser Thr Gly Ala Ala Gln			
	500	505	510
Trp Thr Val Pro Thr Val Ser Gly Ser Leu Thr Pro Gln Pro Thr Gln			
	515	520	525
Pro Pro Pro Lys Pro Lys Thr Met Gly Ser Pro Val Gln Ser Thr Leu			
	530	535	540
Ile Ser Glu Leu Lys Gln Lys Phe Glu Lys Lys Ser Val His Asn Lys			
545	550	555	560
Ala Tyr Phe			

<210> 2545

<211> 214

<212> PRT

<213> Homo sapiens

<400> 2545

Met	Pro	Pro	Phe	Pro	Arg	Gly	Leu	Lys	Thr	His	Tyr	Val	Asp	Leu	Val
1				5					10					15	
Pro	Gly	Ser	Val	Arg	Arg	Trp	Pro	Gln	Leu	Trp	Gly	Trp	Ser	Met	Leu
			20					25					30		
Pro	Thr	His	Ser	Ser	Gly	Lys	Trp	Gly	Pro	Arg	His	Arg	Gly	Ser	Ala
			35				40					45			
Pro	Thr	Ala	Ala	Pro	Gly	Ala	Leu	Val	Phe	Trp	Glu	Gly	Leu	Gly	Val
	50					55					60				
Cys	Thr	Arg	Arg	Pro	Gly	Pro	Gly	Thr	Ser	Pro	Gly	Ala	Gly	Ser	Gln
65					70					75				80	
Gly	His	Arg	Val	Cys	Gly	Lys	Arg	Cys	Gly	Gly	Arg	Ala	Gly	His	Arg
				85					90					95	
Arg	Val	Ser	Arg	Arg	Arg	Leu	Gln	Ala	Gly	Leu	Ser	Gln	Ser	Arg	Arg
		100						105					110		
Arg	Gly	Ile	Pro	Ser	Arg	Thr	Gly	Val	Leu	Ser	Pro	Thr	Ala	Val	Ile
		115					120						125		
Ser	Ser	Arg	Ser	Gly	Arg	Gly	Ser	Lys	Gln	Asn	Arg	Leu	Arg	Glu	Ala
	130					135						140			
Gly	Leu	Gly	Gln	Val	Gly	Gly	Ala	Pro	Pro	Cys	Met	Thr	Ala	Thr	Val
145					150					155				160	
Gly	Ala	Phe	Arg	Arg	Leu	Thr	Ala	Val	Gly	Ala	Ser	Gly	Glu	Lys	Arg
				165					170					175	
Gly	Gly	Thr	Ala	Val	Ser	Ser	Cys	Gly	Ala	Ala	Ser	Asn	Trp	His	Pro
		180							185					190	
Gly	Thr	Gly	Pro	Val	Gln	Arg	Arg	His	Leu	Gln	Arg	Ala	Gly	Gln	Pro

195 200 205
Gly Ala Gly Ala Cys Ala
210

<210> 2546
<211> 893
<212> PRT
<213> Homo sapiens

<400> 2546
Met Leu Phe Pro Gln Gly Ala His Leu Val Pro Gln Ala Arg Val His
1 5 10 15
Pro Ser Gln Met Glu Ile Ser Glu Thr Val Glu Lys Val Ile Leu Pro
20 25 30
Pro Arg Pro Val Leu Asn Asp Val Ser Ala Ala Leu Gln Lys Leu Cys
35 40 45
Gly Glu Val Trp Leu Ser Tyr Pro Ala Gly Arg Glu Val Gly Pro Gly
50 55 60
Glu Val Asn Pro Glu Phe Pro Glu Ala Val Gln Pro Val Cys Ser Pro
65 70 75 80
Leu Asn Pro Pro Gly Val Ile Ser Pro Trp Ala Thr Met Asp Thr Ile
85 90 95
Val Pro Asp Arg Lys Asp Phe Tyr Ser Ser Asn Val Val Pro Asp Lys
100 105 110
Thr His Glu Val Gly Ser Tyr Leu Ala Ala Gln Met Ser Pro Ser Asp
115 120 125
Gln Thr Leu Ser Ser Phe Ala Ser Ile Val Ala Gln Tyr Gly Lys Gly
130 135 140

Leu Pro Gln Glu Val Glu Glu Ile Val Arg Glu Thr Ile Val Gln Pro
145 150 155 160
Lys Ser Glu Phe Leu Glu Phe Ser Ala Gly Leu Glu Lys Leu Leu Lys
165 170 175
Glu Glu Thr Glu Thr Phe Pro Ser Lys Tyr Glu Ser Asp Thr Gly Asn
180 185 190
Leu Ser Pro Ser Lys Leu Ile Gly Ser Thr Glu Glu Pro Arg Arg Ala
195 200 205
Thr Ser Glu Cys His Pro Glu Glu Leu Lys Glu Thr Val Glu Lys Ala
210 215 220
Glu Ala Pro Leu Ile Thr Glu Ser Ala Phe Asp Ala Gly Phe Glu Lys
225 230 235 240
Leu Leu Lys Glu Ile Thr Glu Ala Pro Pro Tyr Gln Pro Gln Val Ser
245 250 255
Val Arg Glu Glu Thr His Glu Lys Glu Ser Ser Gln Ser Glu Gln Thr
260 265 270
Arg Phe Leu Gly Thr Val Pro His Phe Tyr Arg Ala Ala Ser Gln Thr
275 280 285
Ser Glu Met Lys Asp Lys Ser Asn Gly Leu Glu Ser Gln Val Asn Gln
290 295 300
Cys Asp Lys Met Leu Gly Gly Asp Ala Leu Val Thr Asp Leu Leu Val
305 310 315 320
Asp Phe Cys Gly Ser Arg Ser Gly Val Glu Ile Pro Arg Thr Pro Gln
325 330 335
Leu Tyr Val Ala His Glu Ile Gly Thr Ile Lys Thr Val Thr Pro Pro
340 345 350
Glu Asp Arg Asp Ser Glu Ser Gly Val Ala Gly Gly Gln Gly Thr Leu
355 360 365
Gln Glu Pro Gly Phe Gly Glu Ala Ser Glu Ala Ile Ser Val Ser Arg

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ala Gln Cys Lys Asp Leu Ala Ala Ala Asp Val Lys Lys Gln Arg Ser
610 615 620
Asp Pro Tyr Val Lys Ala Tyr Leu Leu Pro Asp Lys Gly Lys Met Gly
625 630 635 640
Lys Lys Lys Thr Leu Val Val Lys Lys Thr Leu Asn Pro Val Tyr Asn
645 650 655
Glu Ile Leu Arg Tyr Lys Ile Glu Lys Gln Ile Leu Lys Thr Gln Lys
660 665 670
Leu Asn Leu Ser Ile Trp His Arg Asp Thr Phe Lys Arg Asn Ser Phe
675 680 685
Leu Gly Glu Val Glu Leu Asp Leu Glu Thr Trp Asp Trp Asp Asn Lys
690 695 700
Gln Asn Lys Gln Leu Arg Trp Tyr Pro Leu Lys Arg Lys Thr Ala Pro
705 710 715 720
Val Ala Leu Glu Ala Glu Asn Arg Gly Glu Met Lys Leu Ala Leu Gln
725 730 735
Tyr Val Pro Glu Pro Val Pro Gly Lys Lys Leu Pro Thr Thr Gly Glu
740 745 750
Val His Ile Trp Val Lys Glu Cys Leu Asp Leu Pro Leu Leu Arg Gly
755 760 765
Ser His Leu Asn Ser Phe Val Lys Cys Thr Ile Leu Pro Asp Thr Ser
770 775 780
Arg Lys Ser Arg Gln Lys Thr Arg Ala Val Gly Lys Thr Thr Asn Pro
785 790 795 800
Ile Phe Asn His Thr Met Val Tyr Asp Gly Phe Arg Pro Glu Asp Leu
805 810 815
Met Glu Ala Cys Val Glu Leu Thr Val Trp Asp His Tyr Lys Leu Thr
820 825 830
Asn Gln Phe Leu Gly Gly Leu Arg Ile Gly Phe Gly Thr Gly Lys Ser

835 840 845
 Tyr Gly Thr Glu Val Asp Trp Met Asp Ser Thr Ser Glu Glu Val Ala
 850 855 860
 Leu Trp Glu Lys Met Val Asn Ser Pro Asn Thr Trp Ile Glu Ala Thr
 865 870 875 880
 Leu Pro Leu Arg Met Leu Leu Ile Ala Lys Ile Ser Lys
 885 890

<210> 2547

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2547

Met Met Thr Gly Cys Gly Leu Gly Pro Val Val Gly Pro Ser Pro Ala
 1 5 10 15
 Ser Asp His Ser Ala Leu Leu Pro Leu Gly Cys Lys Cys Ser Cys Arg
 20 25 30
 Leu Ala Cys Ser Cys Leu Leu Ser Leu Pro Gly Pro Leu Gly Leu Leu
 35 40 45
 His Leu Pro Leu Glu Arg Cys Pro Pro Ser Ala Cys Trp Arg Ser Arg
 50 55 60
 His Cys Cys Ser Pro Thr Glu Arg Ser Ser Ser Arg Thr His Leu Gly
 65 70 75 80
 His Leu Gly Trp Asn Ser Phe Pro Tyr Asp Phe Pro Ser Glu Glu Glu
 85 90 95
 Thr Pro Ser Asp Val Leu Cys Leu Leu Thr Glu Gln Pro Gly Gly Gln
 100 105 110

Ala Ser Leu Gln Phe Leu Leu Gly Ala Pro Glu Ala Met Leu Ser Leu
 115 120 125
 Gly Ser Pro Ser Leu Ser Arg Val Ala Val Arg Val Pro Gly Arg Lys
 130 135 140
 Arg Pro Gly Arg Leu Glu Arg Ala Gly Val Ala Ser Trp Arg Gln Arg
 145 150 155 160
 Val

<210> 2548

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2548

Met Ser His Val Ile Trp Thr Leu Lys Met Glu Cys Ser Glu Thr His
 1 5 10 15
 Val Gln Gly Ser Cys Ala Lys Leu Met Ser Arg Thr Gly Leu Leu Met
 20 25 30
 Lys Leu Leu Ser Glu Gln Gln Glu Ala Lys Ala Leu Asn Val Glu Trp
 35 40 45
 Asp Thr Asp Gln Gln Lys Thr Asn Tyr Ile Asn Glu Asn Met Glu Gln
 50 55 60
 Asn Glu Gln Lys Glu Gln Lys Ser Ser Glu Leu Met Lys Glu Val Pro
 65 70 75 80
 Gly Tyr Asp Tyr Lys Asn Lys Leu Ile Phe Ala Ile Ser Val Thr Val
 85 90 95
 Ile Leu Ile Ile Leu Ile Ile Ile Phe Cys Phe Ile Glu Val Lys Thr

100	105	110
Ile Ile Asn Ser Gly Phe Gln Asn Thr Ile Leu Cys Leu Cys Gly Phe		
115	120	125
Arg Ile His Lys Leu Lys Thr Asn Val Thr Phe Pro Leu Asp Ile Leu		
130	135	140
Leu Leu Ser Phe Lys Ala Glu Val Cys Phe Val Leu Leu Leu Gln Cys		
145	150	155
Ile Phe Gln Asp Cys		160
165		

<210> 2549

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2549

Met Asn Asn Val Ser Leu Asp Ser Leu Tyr Ala Lys Val Phe Ile Leu
1 5 10 15
Asn Met Cys Pro Lys Ile Tyr Ala Leu Thr Asp Val Ile Lys Ile Val
20 25 30
Gln Glu Ile Asn Leu Ser Ile Thr Tyr Phe Val Cys Thr Thr Val Ser
35 40 45
Tyr Ser Ala Leu Lys Trp Ser Phe Ile Thr Lys Ala Trp Thr Leu Leu
50 55 60
Gln Gln Ser Arg Gly Leu Leu Asn Ser Asp Leu Arg Ser Phe Val Cys
65 70 75 80
Leu Ser Gln Ile Ile Ala His Ser Gln Gly Asn Lys Glu Ser Trp Trp
85 90 95

Ile Glu Phe Ser Asp Tyr

100

<210> 2550

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2550

Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys Asp Lys Pro

1

5

10

15

Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr Pro Gly Asp

20

25

30

Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg Pro Gly Pro

35

40

45

Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly Lys Pro Thr

50

55

60

Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser Ser Leu Ser

65

70

75

80

Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro Arg Ala Ser

85

90

95

Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr Ser Ile His

100

105

110

Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val Asp Ser Pro

115

120

125

Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn Val Asp Lys

130

135

140

Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu Gln Gln Ser

145 150 155 160
Ser

<210> 2551

<211> 184

<212> PRT

<213> Homo sapiens

<400> 2551

Met Pro Val Lys Gly Ala Ser Ser Leu Leu Phe Leu Pro Leu Pro Pro

1 5 10 15

Ser Ala Trp Gln Leu Cys Leu Leu Ser Lys Arg Arg Val His Pro Ile

20 25 30

Arg Thr Pro Leu Pro Phe His Ser Trp Ile Lys Ala Leu Val Ile Ser

35 40 45

Asn Gln Lys Val Pro Glu Arg Glu Arg Pro Glu Ser Thr Gly Val Leu

50 55 60

Ser Asp Gly Cys Leu Gly Gln Ser Gln Glu Gly Glu Pro Leu Leu Ser

65 70 75 80

Pro Pro Ala Leu Ala His Phe Pro Leu His Ala Arg Cys Cys Gly Ser

85 90 95

Ser Trp Ala Trp Pro Gly Ser Ala Gly Glu Ala Ile Arg Met Val Ser

100 105 110

Gly Ala Pro Phe Leu Cys Phe Leu Asp Gly Leu Asp Gly Leu Pro Cys

115 120 125

Ser Ser Pro Met Ala Ala Leu Pro Ala Pro Met Ala Ala Leu Pro Ala

130 135 140

Arg Arg Gln Arg Gln Glu His Ile Glu Gly Gly Ser Gln Gly Cys Gly
145 150 155 160
Val Arg Ser Pro Ala Pro Cys Arg Gly Lys Pro Gly Ser Ala Thr Ser
 165 170 175
Ser Thr Leu Arg Leu Cys Pro Ala
 180

<210> 2552

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2552

Met Ser Ser Ser Thr Ser Phe Ile Leu Ser Ala Ile Ala Ser Gly Phe
1 5 10 15
His Tyr Ser Leu Ser Ala Val Thr Ala Cys Gly Gln Leu Leu Leu Leu
 20 25 30
Thr Ala Cys Arg Glu Leu Pro Asn Phe Ser Ser Gln Phe Phe Leu Arg
 35 40 45
Ser Trp Leu Phe Trp Pro Gln Leu Lys Gly Val Leu Leu Ser Ser Leu
 50 55 60
Arg Val Leu Ser Leu Phe Asp Pro Ile Val Val Phe Ser Ser Phe Glu
65 70 75 80
His Val Phe Gln Tyr Ser Tyr Phe Asn Leu Leu Arg Thr Leu Lys Gly
 85 90 95
Asn Asp Lys Leu Val Val Gly Ile Trp Gln Thr Gly Ala Cys Leu Phe
 100 105 110
Glu Arg Ser Ser Arg Arg Asp Lys Ile Gln Ser Ala Ile Cys Phe Ser

115 120 125
 Trp Arg Gly Lys Arg Glu Asn Leu Leu Asp Tyr Ile Leu Val Pro Trp
 130 135 140
 His Thr Thr Tyr Met Phe Lys
 145 150

<210> 2553

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2553

Met Asn Asn Leu Gly Ser Trp Thr His Cys Phe Thr Thr His Leu Pro
 1 5 10 15
 Leu Asp Glu Val Ile Trp Leu Gln Ile Leu Cys Arg Gly Lys His Leu
 20 25 30
 Leu Met Trp Gln Leu Leu Met Leu Met Val Pro Met Ala Trp Gly Pro
 35 40 45
 Gln Gly Ser Leu Pro Gly Gly Glu Gln Gly Tyr Leu Cys Val Leu Tyr
 50 55 60
 Ser Ser Gln Gly Val Pro Ala Ala Pro Ala Gly Ser Arg Ala Gln Cys
 65 70 75 80
 Thr Val Leu Phe Val Ser Pro Ala Val Leu Ser Ser Pro Gly Tyr Ala
 85 90 95
 Gln Ala Ser Arg Val Phe His Gly Ser Gly Ser Gly Trp Leu Lys Cys
 100 105 110
 Gln Pro Thr Cys Cys Pro Pro Asn Ile Pro Phe Tyr Pro Trp His Ala
 115 120 125

Val Ala Glu Leu Asn Phe

130

<210> 2554

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2554

Met Ile Gln Phe Ser Lys Phe Glu Leu Leu Met Met His Lys Met Val

1

5

10

15

Ser Lys Ile Phe Thr Lys Ser Val Thr Leu Phe Phe Leu Ile Thr Phe

20

25

30

Phe Ser Arg Arg Ser Phe Thr Leu Phe Ala Gln Ala Gly Val Gln Trp

35

40

45

Arg His Leu Gly Ser Leu Gln Leu Leu Pro Pro Gly Phe Lys Arg Phe

50

55

60

Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Ser Leu Leu Pro

65

70

75

80

Cys Leu Ala Asn Phe Val Phe Leu Val Gly Met Gly Phe His His Gly

85

90

95

Gly Gln Ala Gly Leu Asp Leu Leu Thr Ser Ser Asn Pro Pro Thr Ser

100

105

110

Ala Ser Gln Ser Ala Met Ile Ile Gly Val Ser His His Ala Trp Pro

115

120

125

Ile Thr Leu Tyr

130

<210> 2555

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2555

Met Pro Pro His Thr Leu Pro Arg Ala Arg Leu Pro Gln Arg Pro Thr

1 5 10 15

Trp Pro His Met Gln Pro Tyr Gln Leu Pro Arg Ala Ala His Val Pro

20 25 30

Trp Val Thr Val Gly Val Ser Gly Arg Pro Pro Thr His Gly Cys Thr

35 40 45

Ala Arg Thr Ser Pro Ser Thr Trp Gly Arg Ala Ser Ser Pro Ser Phe

50 55 60

Lys Asn Arg Lys His Ile Ser Trp Gln Lys Gly Arg Arg Trp Gly Ala

65 70 75 80

Val Arg Leu Ser Ser Val Tyr Gly Glu Glu Val His Trp Pro Arg Leu

85 90 95

Ala Ser Val Pro Ala Leu Pro Leu Ile Gly Ser Phe Leu Thr Leu Val

100 105 110

Ser Leu Lys Val Thr Leu Ala Leu Glu Gly Cys Arg Gly Ala Glu Met

115 120 125

Gly Arg Cys Val Trp Lys Ser Arg Ala Asp Ile Gln Ala Glu Ala Trp

130 135 140

Pro Gly Ser Leu Arg Thr Arg Glu Val Ser Phe Leu Ala Pro Asp Ala

145 150 155 160

Gly Asp Gln Trp Pro Leu Leu Thr Phe Pro Gly Glu Phe

165 170

<210> 2556

<211> 710

<212> PRT

<213> Homo sapiens

<400> 2556

Met His Asn Ile Arg Gly Asn Lys Gln Ala Gln Gly Thr Gly His Glu
1 5 10 15
Pro Pro Gly Glu Asp Ser Thr Gln Ser Gly Glu Pro Gln Arg Glu Glu
20 25 30
Gln Pro Ser Ala Ser Asp Ala Ser Thr Pro Val Arg Glu Pro Glu Asp
35 40 45
Ser Pro Lys Pro Ala Pro Lys Pro Ser Leu Thr Ile Ser Phe Ala Gln
50 55 60
Lys Ala Lys Arg Gln Asn Asn Thr Phe Pro Phe Phe Ser Glu Gly Ile
65 70 75 80
Thr Arg Asn Arg Thr Ala Gln Glu Lys Val Ala Ala Leu Glu Gln Gln
85 90 95
Val Leu Met Leu Thr Lys Glu Leu Lys Ser Gln Lys Glu Leu Val Lys
100 105 110
Ile Leu His Lys Ala Leu Glu Ala Ala Gln Gln Glu Lys Arg Ala Ser
115 120 125
Ser Ala Tyr Leu Ala Ala Ala Glu Asp Lys Asp Arg Leu Glu Leu Val
130 135 140
Arg His Lys Val Arg Gln Ile Ala Glu Leu Gly Arg Arg Val Glu Ala
145 150 155 160
Leu Glu Gln Glu Arg Glu Ser Leu Ala His Thr Ala Ser Leu Arg Glu

165	170	175
Gln Gln Val Gln Glu Leu Gln Gln His Val Gln Leu Leu Met Asp Lys		
180	185	190
Asn His Ala Lys Gln Gln Val Ile Cys Lys Leu Ser Glu Lys Val Thr		
195	200	205
Gln Asp Phe Thr His Pro Pro Asp Gln Ser Pro Leu Arg Pro Asp Ala		
210	215	220
Ala Asn Arg Asp Phe Leu Ser Gln Gln Gly Lys Ile Glu His Leu Lys		
225	230	235
240		
Asp Asp Met Glu Ala Tyr Arg Thr Gln Asn Cys Phe Leu Asn Ser Glu		
245	250	255
Ile His Gln Val Thr Lys Ile Trp Arg Lys Val Ala Glu Lys Glu Lys		
260	265	270
Ala Leu Leu Thr Lys Cys Ala Tyr Leu Gln Ala Arg Asn Cys Gln Val		
275	280	285
Glu Ser Lys Tyr Leu Ala Gly Leu Arg Arg Leu Gln Glu Ala Leu Gly		
290	295	300
Asp Glu Ala Ser Glu Cys Ser Glu Leu Leu Arg Gln Leu Val Gln Glu		
305	310	315
320		
Ala Leu Gln Trp Glu Ala Gly Glu Ala Ser Ser Asp Ser Ile Glu Leu		
325	330	335
Ser Pro Ile Ser Lys Tyr Asp Glu Tyr Gly Phe Leu Thr Val Pro Asp		
340	345	350
Tyr Glu Val Glu Asp Leu Lys Leu Leu Ala Lys Ile Gln Ala Leu Glu		
355	360	365
Ser Arg Ser His His Leu Leu Gly Leu Glu Ala Val Asp Arg Pro Leu		
370	375	380
Arg Glu Arg Trp Ala Ala Leu Gly Asp Leu Val Pro Ser Ala Glu Leu		
385	390	395
400		

Lys Gln Leu Leu Arg Ala Gly Val Pro Arg Glu His Arg Pro Arg Ala
405 410 415

Trp Arg Trp Leu Val His Leu Arg Val Gln His Leu His Thr Pro Gly
420 425 430

Cys Tyr Gln Glu Leu Leu Ser Arg Gly Gln Ala Arg Glu His Pro Ala
435 440 445

Ala Arg Gln Ile Glu Leu Asp Leu Asn Arg Thr Phe Pro Asn Asn Lys
450 455 460

His Phe Thr Cys Pro Thr Ser Ser Phe Pro Asp Lys Leu Arg Arg Val
465 470 475 480

Leu Leu Ala Phe Ser Trp Gln Asn Pro Thr Ile Gly Tyr Cys Gln Gly
485 490 495

Leu Asn Arg Leu Ala Ala Ile Ala Leu Leu Val Leu Glu Glu Glu Glu
500 505 510

Ser Ala Phe Trp Cys Leu Val Ala Ile Val Glu Thr Ile Met Pro Ala
515 520 525

Asp Tyr Tyr Cys Asn Thr Leu Thr Ala Ser Gln Val Asp Gln Arg Val
530 535 540

Leu Gln Asp Leu Leu Ser Glu Lys Leu Pro Arg Leu Met Ala His Leu
545 550 555 560

Gly Gln His His Val Asp Leu Ser Leu Val Thr Phe Asn Trp Phe Leu
565 570 575

Val Val Phe Ala Asp Ser Leu Ile Ser Asn Ile Leu Leu Arg Val Trp
580 585 590

Asp Ala Phe Leu Tyr Glu Gly Thr Lys Val Val Phe Arg Tyr Ala Leu
595 600 605

Ala Ile Phe Lys Tyr Asn Glu Lys Glu Ile Leu Arg Leu Gln Asn Gly
610 615 620

Leu Glu Ile Tyr Gln Tyr Leu Arg Phe Phe Thr Lys Thr Ile Ser Asn

625 630 635 640
Ser Arg Lys Leu Met Asn Ile Ala Phe Asn Asp Met Asn Pro Phe Arg
 645 650 655
Met Lys Gln Leu Arg Gln Leu Arg Met Val His Arg Glu Arg Leu Glu
 660 665 670
Ala Glu Leu Arg Glu Leu Glu Gln Leu Lys Ala Glu Tyr Leu Glu Arg
 675 680 685
Arg Ala Ser Arg Arg Arg Ala Val Ser Glu Gly Cys Ala Ser Glu Asp
 690 695 700
Glu Val Glu Gly Glu Ala
705 710

<210> 2557

<211> 841

<212> PRT

<213> Homo sapiens

<400> 2557

Met Asn Leu Leu Tyr Arg Lys Thr Lys Leu Glu Trp Arg Gln His Lys
1 5 10 15
Glu Glu Glu Ala Lys Arg Ser Ser Ser Lys Glu Val Ala Pro Ala Gly
 20 25 30
Ser Ala Gly Pro Ala Ala Gly Gln Gly Pro Gly Val Arg Val Arg Asp
 35 40 45
Ile Ala Ser Leu Arg Arg Ser Leu Arg Met Gly Phe Met Thr Met Pro
 50 55 60
Ala Ser Gln Glu His Thr Pro His Pro Cys Arg Ser Ala Met Ala Pro
65 70 75 80

Arg Ser Leu Ser Cys His Ser Val Gly Ser Met Asp Ser Val Gly Gly			
85	90	95	
Gly Pro Gly Gly Ala Ser Gly Gly Leu Thr Glu Asp Ser Ser Thr Arg			
100	105	110	
Arg Pro Pro Ala Lys Pro Arg Arg His Pro Ser Thr Lys Leu Ser Met			
115	120	125	
Val Gly Pro Gly Ser Gly Ala Glu Thr Pro Pro Ser Lys Lys Ala Gly			
130	135	140	
Ser Gln Lys Pro Thr Pro Glu Gly Arg Glu Ser Ser Arg Lys Val Pro			
145	150	155	160
Pro Gln Lys Pro Arg Arg Ser Pro Asn Thr Gln Leu Ser Val Ser Phe			
165	170	175	
Asp Glu Ser Cys Pro Pro Gly Pro Ser Pro Arg Gly Gly Asn Leu Pro			
180	185	190	
Leu Gln Arg Leu Thr Arg Gly Ser Arg Val Ala Gly Asp Pro Asp Val			
195	200	205	
Gly Ala Gln Glu Glu Pro Val Tyr Ile Glu Met Val Gly Asp Val Phe			
210	215	220	
Arg Gly Gly Gly Arg Ser Gly Gly Gly Leu Ala Gly Pro Pro Leu Gly			
225	230	235	240
Gly Gly Gly Pro Thr Pro Pro Ala Gly Ala Asp Ser Asp Ser Glu Glu			
245	250	255	
Ser Glu Ala Ile Tyr Glu Glu Met Lys Tyr Pro Leu Pro Glu Glu Ala			
260	265	270	
Gly Glu Gly Arg Ala Asn Gly Pro Pro Pro Leu Thr Ala Thr Ser Pro			
275	280	285	
Pro Gln Gln Pro His Ala Leu Pro Pro His Ala His Arg Arg Pro Ala			
290	295	300	
Ser Ala Leu Pro Ser Arg Arg Asp Gly Thr Pro Thr Lys Thr Thr Pro			

305 310 315 320
Cys Glu Ile Pro Pro Pro Phe Pro Asn Leu Leu Gln His Arg Pro Pro
 325 330 335
Leu Leu Ala Phe Pro Gln Ala Lys Ser Ala Ser Arg Thr Pro Gly Asp
 340 345 350
Gly Val Ser Arg Leu Pro Val Leu Cys His Ser Lys Glu Pro Ala Gly
 355 360 365
Ser Thr Pro Ala Pro Gln Val Pro Ala Arg Glu Arg Glu Thr Pro Pro
 370 375 380
Pro Pro Pro Pro Pro Pro Ala Ala Asn Leu Leu Leu Leu Gly Pro Ser
385 390 395 400
Gly Arg Ala Arg Ser His Ser Thr Pro Leu Pro Pro Gln Gly Ser Gly
 405 410 415
Gln Pro Arg Gly Glu Arg Glu Leu Pro Asn Ser His Ser Met Ile Cys
 420 425 430
Pro Lys Ala Ala Gly Ala Pro Ala Ala Pro Pro Ala Pro Ala Ala Leu
 435 440 445
Leu Pro Gly Pro Pro Lys Asp Lys Ala Val Ser Tyr Thr Met Val Tyr
 450 455 460
Ser Ala Val Lys Val Thr Thr His Ser Val Leu Pro Ala Gly Pro Pro
465 470 475 480
Leu Gly Ala Gly Glu Pro Lys Thr Glu Lys Glu Ile Ser Val Leu His
 485 490 495
Gly Met Leu Cys Thr Ser Ser Arg Pro Pro Val Pro Gly Lys Thr Ser
 500 505 510
Pro His Gly Gly Ala Met Gly Ala Ala Ala Gly Val Leu His His Arg
 515 520 525
Gly Cys Leu Ala Ser Pro His Ser Leu Pro Asp Pro Thr Val Gly Pro
 530 535 540

Leu Thr Pro Leu Trp Thr Tyr Pro Ala Thr Ala Ala Gly Leu Lys Arg
545 550 555 560
Pro Pro Ala Tyr Glu Ser Leu Lys Ala Gly Gly Val Leu Asn Lys Gly
565 570 575
Cys Gly Val Gly Ala Pro Ser Pro Met Val Lys Ile Gln Leu Gln Glu
580 585 590
Gln Gly Thr Asp Gly Gly Ala Phe Ala Ser Ile Ser Cys Ala His Val
595 600 605
Ile Ala Ser Ala Gly Thr Pro Glu Glu Glu Glu Glu Glu Val Gly Ala
610 615 620
Ala Thr Phe Gly Ala Gly Trp Ala Leu Gln Arg Lys Val Leu Tyr Gly
625 630 635 640
Gly Arg Lys Ala Lys Glu Leu Asp Lys Val Glu Asp Gly Ala Arg Ala
645 650 655
Trp Asn Gly Ser Ala Glu Gly Pro Gly Lys Val Glu Arg Glu Asp Arg
660 665 670
Gly Pro Gly Thr Ser Gly Ile Pro Val Arg Ser Gln Gly Ala Glu Gly
675 680 685
Leu Leu Ala Arg Ile His His Gly Asp Arg Gly Gly Ser Arg Thr Ala
690 695 700
Leu Pro Ile Pro Cys Gln Thr Phe Pro Ala Cys His Arg Asn Gly Asp
705 710 715 720
Phe Thr Gly Gly Tyr Arg Leu Gly Arg Ser Ala Ser Thr Ser Gly Val
725 730 735
Arg Gln Val Val Leu His Thr Pro Arg Pro Cys Ser Gln Pro Arg Asp
740 745 750
Ala Leu Ser Gln Pro His Pro Ala Leu Pro Leu Pro Leu Pro Leu Pro
755 760 765
Pro Gln Pro Ala Arg Glu Arg Asp Gly Lys Leu Leu Glu Val Ile Glu

770	775	780	
Arg Lys Arg Cys Val Cys Lys Glu Ile Lys Ala Arg His Arg Pro Asp			
785	790	795	800
Arg Gly Leu Cys Lys Gln Glu Ser Met Pro Ile Leu Pro Ser Trp Arg			
	805	810	815
Arg Gly Pro Glu Pro Arg Lys Ser Gly Thr Pro Pro Cys Arg Arg Gln			
	820	825	830
His Thr Val Leu Trp Asp Thr Ala Ile			
	835	840	

<210> 2558

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2558

Met Asn Met Leu Val Ile Cys Leu Tyr Leu Val Phe Ile Cys Ile Ala			
1	5	10	15
Ile Phe Glu His Ser Lys Ile Ala Glu His Glu Arg Val Tyr Leu Cys			
	20	25	30
Asp Ser Leu Ile Ser Ala Ala Leu Gly Leu Ser Lys Arg Cys Lys Glu			
	35	40	45
Arg Asp Ile Cys Ile Thr Ser Thr Ser Ser Thr Ser Thr Thr Ser			
	50	55	60
Ser Ser Leu Ala Ser Cys Glu His Arg Gly Thr Cys Pro Ala Leu Val			
	65	70	75
Ser Gly Cys Glu Trp His Glu Pro Arg Gly Leu Ala Gln Leu His Pro			
	85	90	95

Glu Phe Pro Lys Arg Asn Phe Glu Glu Ser Gln Asn Leu

100

105

<210> 2559

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2559

Met Pro Arg Ser Leu Arg Pro Pro Cys Pro Gly Ser Thr Leu Arg Trp

1

5

10

15

Leu Pro Gly Gly Arg Thr Pro Phe Pro His His Val Ser Cys Gln Pro

20

25

30

Arg Arg Ser Ser Gly Glu Arg Glu Ala Glu Ala Gln Ser Gly Ala Ala

35

40

45

Pro Pro Gly Pro Ser Pro Leu Pro Pro Pro Pro Pro His Pro Ile Pro

50

55

60

Ser Ser Thr Thr Ser Ala Gln Ala Trp Leu Leu Ala Lys Ser Arg His

65

70

75

80

Arg Gly Arg Arg Gly Arg Gly Lys Arg Met Ile Pro Pro Gln Asn Gly

85

90

95

Val Ser Arg Lys Lys Arg Glu Cys Arg Ala Arg Arg Asp Ser Trp Gly

100

105

110

Arg Gly Ala Pro Ala Gly Pro Ala Glu Gly Arg Arg Asn Gly Leu Ser

115

120

125

Glu Gly Gln Ala Glu Gly Arg Thr Pro Thr Val Asp Pro Ser Tyr Ala

130

135

140

Pro Cys Arg Gly Gly Ala Gly Arg Arg Arg Cys Thr Arg Leu Pro Ala

145 150 155 160
 Ala Cys Gly Arg Arg Ser Pro Arg Ala Arg Gly Ser Arg Lys Pro Arg
 165 170 175
 Ser Ser Arg Thr Arg Gly Pro Gly Lys Lys Arg Arg Gly Pro Gln Pro
 180 185 190
 Ala Ser Leu Ala Pro Pro Arg Phe Pro Pro Gln Ser Gly Val Pro Leu
 195 200 205
 Arg Leu
 210

<210> 2560

<211> 163

<212> PRT

<213> Homo sapiens

<400> 2560

Met Pro His Pro Arg Pro Pro Ser Thr Pro Pro Pro Arg Pro Leu Ser
 1 5 10 15
 Thr Pro Cys Pro Gln Leu Pro Leu Leu Ala Pro Val Pro Ala Phe Leu
 20 25 30
 Ser His Pro Pro Val Ser Ile Phe Leu Leu Cys Ser His Pro Leu Ser
 35 40 45
 Leu Ser Val Ser Leu Leu Phe Leu Phe Ser Val Ser Pro Ser Asp His
 50 55 60
 Leu Thr Pro Leu Ala Cys Cys Leu Ala Ser Ser Leu Ser Pro Phe Leu
 65 70 75 80
 Ser Leu Phe Val Ser Ser Leu Phe Leu Thr His Phe Leu Tyr Leu Ala
 85 90 95

Ala Ser Pro Cys Phe Arg Leu Ser Val Ser Leu Phe Pro Pro Pro Leu
 100 105 110
 Ser Leu Pro Arg Ser Pro Ile Ser Val Ser Pro Pro Trp Cys Leu Leu
 115 120 125
 Leu Thr Gln Glu Ser Lys Pro Phe Phe Pro Arg Gly Trp Ala Lys Gln
 130 135 140
 Pro Gln Pro Gly Pro Phe Ser Ala Thr Arg Phe Leu Thr Trp Gly Pro
 145 150 155 160
 Ser Ala Pro

<210> 2561

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2561

Met Cys Pro Arg Ser Gly Arg Gln Gln Met Glu Lys Leu Cys Val Thr
 1 5 10 15
 Val Pro Leu Gly Val Val Gly Arg Phe Phe Ile Lys Phe Thr Glu Gly
 20 25 30
 Leu Val Val Pro Gly Val Arg Lys Gly Phe Lys Arg Val Glu Gln Met
 35 40 45
 Asp Glu Asp Asn Leu Gln Ile Leu Pro Gln Thr Gln Thr Leu Ala Cys
 50 55 60
 Val Pro Leu Leu Ser Gly Ile Ser Ser Phe Leu Cys Cys Leu His Arg
 65 70 75 80
 Cys Pro Gln Phe Val Tyr Ser Ile Glu Leu Cys Met Leu Gly Ala Pro

	85		90		95										
Gly	Leu	Ser	Thr	Leu	Asn	Arg	Thr	Ser	Gln	Pro	Ala	Ala	Pro	Val	Gln
	100				105				110						
His	His	Gly	Ser	Pro	Leu	Gln	Ser	Cys	Asn	Phe	Glu	Ser	Gly	Tyr	Ser
	115				120				125						
Asp	Val	Thr	Gln	Val	Leu	Gln	Gly	Met	Asn	Thr	Pro	Thr	Leu	Lys	Pro
	130				135				140						
Leu	Ala	Cys	Arg	Cys	Gly	Arg	Lys	Gly	Ser	Cys	Met	Leu			
145					150				155						

<210> 2562

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2562

Met	Gln	Val	Ile	His	Gly	Pro	His	Val	Glu	Lys	Leu	Gln	Ser	Pro	Leu
1				5					10					15	
Gly	Pro	His	Arg	Pro	Ser	Pro	His	Cys	Pro	Leu	Ser	Val	Val	Thr	Gly
			20					25					30		
Pro	Asp	Leu	Gln	Glu	Cys	Thr	Phe	His	Ser	Thr	Arg	Lys	Pro	Tyr	Asp
		35					40					45			
Ile	Leu	Arg	Leu	Pro	Arg	Pro	Ala	Ala	Cys	Met	Gly	Pro	Leu	Pro	Ser
	50				55					60					
Ser	Thr	Pro	Thr	Leu	Arg	Met	Val	Pro	Cys	Ser	Ala	Leu	Val	Leu	Cys
	65				70					75				80	
Trp	Pro	Leu	Pro	Ala	Thr	Pro	Thr	Leu	Arg	His	Pro	Gly	Val	Val	Gly
				85					90					95	

Pro Asn Trp Leu Ala Pro Pro Ser Ala Ala Leu Cys Arg Pro Asp Ala
100 105 110
Ala Val Trp Pro Asp Leu Pro Ser Ser Asn Ile Leu Leu Val Thr Pro
115 120 125
Pro Pro Ala Lys
130

<210> 2563

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2563

Met Asn Trp Leu Arg Trp Lys Arg Phe Thr Pro Val Ile Met Val His
1 5 10 15
Phe Gln Leu His Arg Lys Val Lys Pro Gly Ser Gly Gly Glu Val Asp
20 25 30
Ala Ala Gly Ser Gln Gly Cys Ser Phe Arg Ser Gly Leu Pro Pro Ala
35 40 45
Trp Thr Gln Trp Phe Ala Ser Ser Ser Ala Thr Ala Pro Gly Asp Ser
50 55 60
Ser Pro Pro Leu Ala Ser Gln Pro Ser Ser Ser Gln Val Leu Leu Ser
65 70 75 80
Ala Pro Pro Ser Cys Cys Ser Gly Gly Arg Glu Asn His Gln Leu His
85 90 95
Thr Leu Leu Val Gly Ser Leu Gln Asp Leu Leu His Thr Glu Leu Ala
100 105 110
Ser Ala Tyr Gln Val Glu Ser Phe Val Leu Ile Phe Gln Lys Gln Cys

115 120 125
 Gly Leu Asn Leu Ser Arg Gln Ile Leu His Ala Arg Leu Tyr
 130 135 140

<210> 2564

<211> 218

<212> PRT

<213> Homo sapiens

<400> 2564

Met Arg Thr Ser Ala Gly Gly Leu Val Thr Gly Gly Trp Ile Ala Arg
 1 5 10 15
 Arg Met Ile Ala Arg Arg Met Asp Arg Gln Glu Asp Gly Ser Pro Gly
 20 25 30
 Gly Trp Met Ala Gln Ser Ser Glu Glu Val Val Glu Gly Pro Ala Pro
 35 40 45
 Gly Asp Pro Ala Gly Arg Ser Gln Thr Thr Ser Glu Ala Pro Thr Glu
 50 55 60
 Pro Arg Pro His Gln Ala Glu Gly Leu Ala Pro Ala Glu Glu Glu Gly
 65 70 75 80
 Gly Val Thr Leu Cys Ser Arg Gln Gly Arg Glu Val Glu Ser Ser Gly
 85 90 95
 Phe Ala Ser Ser Cys Ser Cys Pro Gly Leu Pro Lys Gln Met Pro Pro
 100 105 110
 Gln His Thr Asn His Thr Gly Thr Gln Thr His Met His Thr His His
 115 120 125
 Thr Gly Thr His Leu Cys Thr Thr His His Arg His Thr Thr Gln Ala
 130 135 140

His Thr Gln Ala His Thr Cys Thr His His Thr Gly Thr His Arg Gln
 145 150 155 160
 Thr Gln Leu His Thr Arg Ser His Thr Asp Thr His Gly His Thr Tyr
 165 170 175
 Met Tyr Leu His Ile Tyr Thr His Ala His Lys His His Ser Thr Cys
 180 185 190
 Thr Asn Met Gln Tyr Thr Cys Arg His Ile His Ser Asn Gln Met Ile
 195 200 205
 Lys Glu Arg Asp Gln Asn Ile Asn Asn Lys
 210 215

<210> 2565

<211> 196

<212> PRT

<213> Homo sapiens

<400> 2565

Met Arg Tyr Thr Thr Val Pro Ser Val Arg Pro Thr Ala Leu Ala Thr
 1 5 10 15
 Lys Lys Leu Asp Leu Trp Arg Leu Pro Pro Phe Leu Ile Ile His Leu
 20 25 30
 Lys Arg Phe Gln Phe Val Asn Asp Gln Trp Ile Lys Ser Gln Lys Ile
 35 40 45
 Val Lys Phe Pro Arg Glu Ser Phe Asp Pro Ser Ala Phe Leu Val Pro
 50 55 60
 Arg Asp Pro Ala Leu Cys Gln His Gln Pro Leu Thr Pro Gln Gly Asp
 65 70 75 80
 Glu Leu Ser Lys Pro Arg Ile Leu Ala Arg Glu Val Lys Lys Val Asp

	85		90		95										
Val	Gln	Ser	Leu	Ala	Gly	Glu	Glu	Asp	Met	Leu	Leu	Ser	Lys	Ser	Pro
	100							105					110		
Ser	Ser	Leu	Ser	Ala	Asn	Ile	Ser	Ser	Ser	Pro	Lys	Gly	Ser	Pro	Ser
	115							120					125		
Ser	Pro	Arg	Lys	Ser	Gly	Thr	Ser	Cys	Pro	Ser	Ser	Lys	Asn	Ser	Ser
	130							135					140		
Pro	Asn	Ser	Cys	Pro	Arg	Thr	Leu	Gly	Arg	Ser	Lys	Gly	Arg	Leu	Arg
	145							150					155		160
Leu	Pro	Gln	Ile	Gly	Ser	Lys	Asn	Lys	Leu	Ser	Ser	Ser	Lys	Lys	Asn
								165					170		175
Leu	Asp	Ala	Ser	Lys	Glu	Asn	Gly	Ala	Gly	Gln	Ile	Cys	Glu	Leu	Ala
								180					185		190
Asp	Ala	Leu	Ser												
															195

<210> 2566

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2566

Met	Ser	His	Arg	Ala	Gln	Leu	Ile	Phe	Val	Phe	Leu	Phe	Tyr	Leu	Phe
1				5				10					15		
Ile	Tyr	Phe	Leu	Gly	Asp	Gly	Val	Leu	Leu	Cys	His	Pro	Gly	Trp	Ser
			20					25					30		
Thr	Val	Val	Arg	Ser	Trp	Leu	Thr	Ala	Thr	Ser	Ala	Ser	Gln	Val	Ala
			35					40					45		

Gly Ile Thr Gly Met His His His Ala Gln Leu Ile Phe Val Phe Leu
 50 55 60
 Val Glu Met Gly Phe His Cys Val Gly Gln Ala Gly Leu Glu Leu Leu
 65 70 75 80
 Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Ile
 85 90 95
 Gly Val Ser His Cys Thr Arg Pro Asn Phe Cys Ile Phe Ser Arg Asp
 100 105 110
 Gly Val Ser Pro Cys Trp Leu Ser Trp Ser Gly Thr His Gly Leu Lys
 115 120 125
 Leu Ser Ala His Leu Ser Leu Pro Lys Cys
 130 135

<210> 2567

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2567

Met Ala Ala Leu Met Ala Gln Val Glu Tyr Gly Asp Leu Glu Lys Pro
 1 5 10 15
 Ala Leu Pro Gly Pro Gly Gly Thr Ser Pro Ala Lys Ala Gln His Leu
 20 25 30
 Leu Gln Gln Val Leu Asp Arg Phe His Pro Arg Arg Tyr Arg His Gly
 35 40 45
 Ala Pro Ala Glu Gln Leu Arg His Leu Ala Asp Met Leu Thr Thr Lys
 50 55 60
 Trp Ala Thr Leu Gln Gly Cys Ser Pro Pro Glu Cys Ile Arg Ile Tyr

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Met Ala Ala Glu Asn Glu Ala Ser Gln Glu Ser Ala Leu Gly Ala Tyr
 1 5 10 15
 Ser Pro Val Asp Tyr Met Ser Ile Thr Ser Phe Pro Arg Leu Pro Glu
 20 25 30
 Asp Glu Pro Ala Pro Ala Ala Pro Leu Arg Gly Arg Lys Asp Glu Asp
 35 40 45
 Ala Phe Leu Gly Asp Pro Asp Thr Asp Pro Asp Ser Phe Leu Lys Ser
 50 55 60
 Ala Arg Leu Gln Arg Leu Pro Ser Ser Ser Ser Glu Met Gly Ser Gln
 65 70 75 80
 Asp Gly Ser Pro Leu Arg Glu Thr Arg Lys Asp Pro Phe Ser Ala Ala
 85 90 95
 Ala Ala Glu Cys Ser Cys Arg Gln Asp Gly Leu Thr Val Ile Val Thr
 100 105 110
 Ala Cys Leu Thr Phe Ala Thr Gly Val Thr Val Ala Leu Val Met Gln
 115 120 125
 Ile Tyr Phe Gly Asp Pro Gln Val Arg Gly Thr Asn Gly Glu Gly Glu
 130 135 140
 Glu Thr Gly Glu Trp Gly Val Gly
 145 150

<210> 2569

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2569

Met Cys Ser Gly Lys Glu Asn Pro Asp Ser Asp Ala Asp Leu Asp Val

1 5 10 15
Asp Gly Asp Asp Thr Leu Glu Tyr Gly Lys Pro Gln Tyr Thr Glu Ala
20 25 30
Asp Val Ile Pro Cys Thr Gly Glu Glu Pro Gly Glu Ala Lys Glu Arg
35 40 45
Glu Ala Leu Arg Gly Ala Val Leu Asn Gly Gly Pro Pro Ser Thr Arg
50 55 60
Ile Thr Pro Glu Phe Ser Lys Trp Val Ser Asp Glu Met Pro Ser Thr
65 70 75 80
Ser Asn Gly Glu Ser Ser Lys Gln Glu Ala Met Gln Lys Thr Cys Lys
85 90 95
Asn Ser Asp Ile Glu Lys Ile Thr Glu Asp Ser Ala Val Thr Thr Phe
100 105 110
Glu Ala Leu Lys Ala Arg Val Arg Glu Leu Glu Arg Gln Leu Ser Arg
115 120 125
Gly Asp Arg Tyr Lys Cys Leu Ile Cys Met Asp Ser Tyr Ser Met Pro
130 135 140
Leu Thr Ser Ile Gln Cys Trp His Val His Cys Glu Glu Cys Trp Leu
145 150 155 160
Arg Thr Leu Val Arg Trp His Gly Gly Arg Gly Met Gly Gly Arg Ser
165 170 175
Gly His Cys Pro Asp Val Cys Ala Tyr Ala
180 185

<210> 2570

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2570

Met Ser Tyr Gly Arg Pro Pro Pro Asp Val Glu Gly Met Thr Ser Leu
 1 5 10 15
 Lys Val Asp Asn Leu Thr Tyr Arg Thr Ser Pro Asp Thr Leu Arg Arg
 20 25 30
 Val Phe Glu Lys Tyr Gly Arg Val Gly Asp Val Tyr Ile Pro Arg Asp
 35 40 45
 Arg Tyr Thr Lys Glu Ser Arg Gly Phe Ala Phe Val Arg Phe His Asp
 50 55 60
 Lys Arg Asp Ala Glu Asp Ala Met Asp Ala Met Asp Gly Ala Val Leu
 65 70 75 80
 Asp Gly Arg Glu Leu Arg Val Gln Met Ala Arg Tyr Gly Arg Pro Pro
 85 90 95
 Asp Ser His His Ser Arg Arg Gly Pro Pro Pro Arg Arg Tyr Gly Gly
 100 105 110
 Gly Gly Tyr Gly Arg Arg Ser Arg Ser Pro Arg Arg Arg Arg Ser
 115 120 125
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Tyr
 130 135 140
 Ser Arg Ser Lys Ser Arg Ser Arg Thr Arg Ser Arg Ser Arg Ser Thr
 145 150 155 160
 Ser Lys Ser Arg Ser Ala Arg Arg Ser Lys Ser Lys Ser Ser Ser Val
 165 170 175
 Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Pro
 180 185 190
 Pro Pro Val Ser Lys Arg Glu Ser Lys Ser Arg Ser Arg Ser Lys Ser
 195 200 205
 Pro Pro Lys Ser Pro Glu Glu Glu Gly Ala Val Ser Ser

210

215

220

<210> 2571

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2571

Met Ala Val Ile Pro Glu Ser Ala Trp Lys His Pro Asp Tyr Val Asp

1 5 10 15

Asp Gly Leu Ser Gly Val Cys Asn Gly Leu Glu Gln Pro Arg Lys Gln

20 25 30

Gln Arg Ser Asp Leu Asn Gly Pro Val Asp Asn Asn Asn Ile Pro Glu

35 40 45

Thr Lys Lys Val Ala Ser Phe Pro Ser Phe Val Ala Val Pro Gly Pro

50 55 60

Cys Glu Pro Glu Asp Leu Ile Asp Gly Ile Ile Phe Ala Ala Asn Tyr

65 70 75 80

Leu Gly Ser Thr Gln Leu Leu Ser Glu Arg Asn Pro Ser Lys Asn Ile

85 90 95

Arg Met Met Gln Ala Gln Glu Ala Val Ser Arg Val Lys Asn Ser Glu

100 105 110

Gly Asp Ala Gln Thr Leu Thr Glu Val Asp Leu Phe Ile Ser Thr Gln

115 120 125

Arg Ile Lys Val Leu Asn Ala Asp Thr Gln Glu Thr Met Met Asp His

130 135 140

Ala Leu Arg Thr Ile Ser Tyr Ile Ala Asp Ile Gly Asn Ile Val Val

145 150 155 160

Leu Met Ala Arg Arg Arg Met Pro Arg Ser Ala Ser Gln Asp Cys Ile
 165 170 175
 Glu Thr Thr Pro Gly Ala Gln Glu Gly Lys Lys Gln Tyr Lys Met Ile
 180 185 190
 Cys His Val Phe Glu Ser Glu Asp Val Ser Lys Pro Leu Pro Gly His
 195 200 205
 Ser Pro Pro Lys Val His Ser Pro Gly Arg Leu Gln Asp Pro Gly Ala
 210 215 220
 Val Glu Thr Thr Leu Arg Trp Lys Ala Ser Met Leu Leu Leu Met Phe
 225 230 235 240
 Pro Val Asp Gln

<210> 2572

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2572

Met Met Pro Pro Pro Gly Ile Pro Pro Pro Phe Pro Pro Met Gly Leu
 1 5 10 15
 Pro Pro Met Ser Gln Arg Pro Pro Ala Ile Pro Pro Met Pro Pro Gly
 20 25 30
 Ile Leu Pro Pro Met Leu Pro Pro Met Gly Ala Pro Pro Pro Leu Thr
 35 40 45
 Gln Ile Pro Gly Met Val Pro Pro Met Met Pro Gly Met Leu Met Pro
 50 55 60
 Ala Val Pro Val Thr Ala Ala Val Ser Thr Arg Gly Gln Gln Val Ala

65 70 75 80
 Gly Ser Ala Leu Gln Ser Arg Glu Ser Asp Leu Glu Cys Arg Thr Met
 85 90 95
 Thr Ser Ile Leu Ser Leu Phe Ser Ser His Pro Pro Arg Ser Pro Ala
 100 105 110
 Ala Leu Pro Thr Leu Lys Ser Phe Ser Pro Ala Met Tyr Ser Ala Leu
 115 120 125
 Leu Val Ser His Ser Ser Pro Lys Ala Tyr Thr Phe Ser Cys Tyr Ser
 130 135 140
 Arg Ala Leu Ser Ser Ser Leu Lys Glu His Thr Tyr Pro His Arg Ala
 145 150 155 160
 Thr His Cys Gly His Met Asn Ile Val Leu His Ile Leu Phe Val Pro
 165 170 175
 Arg Arg Val Ser Ser Thr Trp Gly Ser Cys Cys Ala Phe Leu Cys Tyr
 180 185 190
 Arg Ser Val
 195

<210> 2573

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2573

Met Asp Ile Arg Ser Ala Ala Gly Leu Arg Val Leu Ala Val Asn Ile
 1 5 10 15
 Leu Gly Arg Phe Leu Leu Asn Ser Asp Arg Asn Ile Arg Tyr Val Ala
 20 25 30

Leu Thr Ser Leu Leu Arg Leu Val Gln Ser Asp His Ser Ala Val Gln
 35 40 45
 Arg His Arg Pro Thr Val Val Glu Cys Leu Arg Glu Thr Asp Ala Ser
 50 55 60
 Leu Ser Arg Arg Ala Leu Glu Leu Ser Leu Ala Leu Val Asn Ser Phe
 65 70 75 80
 Asn Val Arg Ala Met Met Gln Glu Leu Gln Ala Phe Leu Glu Ser Cys
 85 90 95
 Pro Pro Asp Leu Arg Ala Asp Cys Ala Ser Gly Ile Leu Leu Ala Ala
 100 105 110
 Glu Arg His His Pro Ala Cys Ala Asp Asn Gly Gly His Pro Cys Ala
 115 120 125
 Gly

<210> 2574

<211> 192

<212> PRT

<213> Homo sapiens

<400> 2574

Met Glu Asp Ser Ala Val Pro Thr Pro Asp Ser Arg Glu Ala Gly Val
 1 5 10 15
 Trp Thr Val Pro His Leu Asn Pro His Ser Leu Cys Leu Pro Leu Pro
 20 25 30
 Arg Leu Ala Lys Lys Ser Trp Phe Gly Asn Phe Ile Ser Leu Glu Lys
 35 40 45
 Glu Glu Gln Ile Phe Val Val Ile Lys Asp Lys Pro Leu Ser Ser Ile

50	55	60	
Lys Ala Asp Ile Val His Ala Phe Leu Ser Ile Pro Ser Leu Ser His			
65	70	75	80
Ser Val Ile Ser Gln Thr Ser Phe Arg Ala Glu Tyr Lys Ala Thr Gly			
85	90	95	
Gly Pro Ala Val Phe Gln Lys Pro Val Lys Phe Gln Val Asp Ile Thr			
100	105	110	
Tyr Thr Glu Gly Gly Glu Ala Gln Lys Glu Asn Gly Ile Tyr Ser Val			
115	120	125	
Thr Phe Thr Leu Leu Ser Gly Pro Ser Arg Arg Phe Lys Arg Val Val			
130	135	140	
Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His Asp Pro Pro Ala Ala			
145	150	155	160
Gln His Leu Ser Glu Pro Pro Pro Pro Ala Pro Gly Leu Ser Trp Gly			
165	170	175	
Ala Gly Leu Lys Gly Gln Lys Val Ala Thr Ser Tyr Glu Ser Ser Leu			
180	185	190	

<210> 2575

<211> 256

<212> PRT

<213> Homo sapiens

<400> 2575

Met Asn Pro Gly Gly Arg Ala Cys Ser Glu Pro Arg Leu Arg His Ala			
1	5	10	15
Thr Ala Leu Gln Pro Gly Arg Gln Ser Glu Thr Pro Ser Gln Lys Lys			
20	25	30	

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<210> 2576

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2576

Met Gly Trp Val Gly Val Val Gln Val Pro Cys Met Gly Ser Thr Ala

1 5 10 15

Leu Lys Arg Val Gln Arg Pro His Leu Arg Val Ser Ala Arg Ala Gly

20 25 30

Phe Arg Ala Ser Leu Ala Ser Trp Ala Leu Cys Leu Ser His Ser Asp

35 40 45

Ser Asn Met Ile Thr Cys Ser Glu Gln Pro His Leu Ser Lys Gln Gly

50 55 60

Glu Asn Thr Ser Ala Thr Phe Lys Asn Met Ser Pro Gly Ile Lys Lys

65 70 75 80

Lys Thr Arg Lys Ala Ser Phe Ser Ser Leu Val Gly Lys Ser Ser Leu

85 90 95

Leu Thr Ala Ser Ser

100

<210> 2577

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2577

Met Ser His Arg Ala Gln Pro Ile Leu Phe Ser Arg Gln Gly Leu Ala
 1 5 10 15
 Leu Ser Pro Glu Leu Glu Cys Ser Gly Ser Ile Met Ala His Tyr Ser
 20 25 30
 Leu Asp Leu Leu Gly Ser Gly Ser Ser Pro Thr Ser Ala Ser Arg Val
 35 40 45
 Ala Gly Thr Ala Gly Met His Cys His Thr Arg Leu Met Phe Lys Lys
 50 55 60
 Phe Phe Cys Arg Asp Arg Val Leu Thr Val Leu Pro Arg Leu Val Leu
 65 70 75 80
 Asn Ser Cys Val Gln Ala Val Leu Leu Pro Gln Pro Pro Arg Val Leu
 85 90 95
 Gly Leu Gln Ala
 100

<210> 2578

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2578

Met Arg Trp Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala
 1 5 10 15
 Ile Ser Thr Asp Ser Ser Leu His Leu Pro Gly Ser Ser Asn Ser Leu
 20 25 30
 Thr Ser Ala Ser Gln Val Gly Gly Ile Thr Gly Ala Cys His His Ala
 35 40 45
 Arg Leu Ile Phe Val Phe Ser Val Glu Thr Gly Phe His His Val Gly

出証特 2 0 0 4 - 3 0 5 9 6 6 0

<400> 2579

Met Leu Ser Arg Trp Ser Ala Ser Phe Thr Val Thr Lys Gly Lys Ser
 1 5 10 15
 Ser Thr Gln Glu Ala Thr Gly Gln Ala Val Ser Thr Ala His Pro Pro
 20 25 30
 Thr Gly Lys Arg Leu Lys Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys
 35 40 45
 Asp Cys Lys Ala Asp Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile
 50 55 60
 Gly Gln Arg Arg Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala
 65 70 75 80
 Leu Met Leu Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln
 85 90 95
 Ala Ser Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser
 100 105 110
 Ala Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly
 115 120 125
 Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe Phe
 130 135 140
 Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val Val Val
 145 150 155 160
 Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala Gly Ile Val
 165 170 175
 Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser Val Ala Lys Pro
 180 185 190
 Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val Thr Phe Val Asp Lys
 195 200 205
 Ala Val Cys Arg Asn Asn Gly Phe Phe Ser Tyr His Met Pro Asn Trp

210	215	220
Phe Gly Thr Thr Lys Tyr Glu Ser Leu Trp Tyr Arg Ser Cys Ala Val		
225	230	235
240		
Met Asn Lys		

<210> 2580

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2580

Met Val Asn Ile Arg Lys Ala Val Lys Lys Glu Met Glu Arg Ser Val
1 5 10 15
Gly Met Val Asn Ser Gln Arg Arg Glu Ala Gly Leu Ala Trp Ser Gln
20 25 30
Gln Pro Gly Val Gln His Ser His Ser Pro Gln Lys Glu Gln Lys Ala
35 40 45
Thr Cys Ala Leu Phe Cys Arg Cys Ala Phe Pro Thr Pro Pro Trp Gly
50 55 60
Pro Leu Ala Gln Phe Ser Leu Ala Val Ser Leu Pro Asp Thr His Phe
65 70 75 80
Pro Glu Ala Ser Gln Val Ile Ser His His Met Ser Pro Arg Lys Glu
85 90 95
Val Phe Gly Thr
100

<210> 2581

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2581

Met Gly Thr Ala Tyr Val Ala Leu Pro Gln Pro Ser Ser Met Gln Trp

1 5 10 15

Pro Gly Ser Asn Gln Arg Ser Pro Gly Arg Val Ser Cys Lys Asn Leu

20 25 30

Gly Lys Arg Ala Gln Gly Gly Cys Arg Leu Leu Thr Ala Cys Leu Asp

35 40 45

Arg Pro His Gly Ala Ser Pro His Ile Ala Arg Ala Leu Ala Ser Pro

50 55 60

Leu Pro Thr Cys Lys Arg Gly Cys Trp Gln Gln His Phe Thr Thr Arg

65 70 75 80

Asn Leu Tyr Ser Asn Ser Lys His Ala Leu Thr His Ser Val Asn Tyr

85 90 95

Pro Leu Ser Trp Pro Thr Glu Val Asp Ser Phe Arg Pro Pro Phe Val

100 105 110

Gln Met Arg Lys Leu Arg Leu Thr Pro Lys Pro Gly Gly Phe Gln Met

115 120 125

Trp Ser Gly Ser Leu Cys Pro Gly Asp Glu Gly Thr Arg Arg Val Trp

130 135 140

Ser Arg Ala Gly Val Gly Leu Arg Cys Ser Arg Leu Ala Val Lys Gly

145 150 155 160

Ala Arg Cys Glu Pro Gly Cys Trp Val

165

<210> 2582

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2582

Met Leu Ala Ala Lys Gln Ser Tyr Lys Met Cys Leu Asp Leu Ile Phe

1 5 10 15

Pro Trp Thr Gln Pro Gln Asp Gly Pro Ala Arg Leu Trp Arg Ser Trp

20 25 30

Asp Ser Lys Val Ser Leu Pro Val Cys Ser Gly Ile Gly Ser Trp Ser

35 40 45

Trp Gly Glu Gly Ser Ile Trp Gly Ser Ala Leu Pro Pro Pro Gly Pro

50 55 60

Phe Leu Phe Leu Ile Ser Ser Gln Ser Leu Met Gln Gln Gln Ser Lys

65 70 75 80

Phe Ser Phe Ser Thr Asp Ser Gly Leu Glu Phe Ser Thr Asn Cys Leu

85 90 95

His Leu Pro Gly His Ile Pro Asn Arg

100 105

<210> 2583

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2583

Met Ala Cys Gly Ala Thr Leu Lys Arg Pro Met Glu Phe Glu Ala Ala
1 5 10 15
Leu Leu Ser Pro Gly Pro Thr Pro Gly Leu Arg Pro Pro Asp Ala Glu
20 25 30
Pro Pro Pro Pro Phe Gln Thr Gln Thr Pro Pro Gln Ser Leu Gln Gln
35 40 45
Pro Ala Pro Pro Gly Ser Glu Arg Arg Leu Pro Thr Pro Glu Gln Ile
50 55 60
Phe Gln Asn Ile Lys Gln Glu Tyr Ser Arg Tyr Gln Arg Trp Arg His
65 70 75 80
Leu Glu Val Val Leu Asn Gln Ser Glu Ala Cys Ala Ser Glu Ser Gln
85 90 95
Pro His Ser Ser Ala Leu Thr Ala Pro Ser Ser Pro Gly Ser Ser Trp
100 105 110
Met Lys Lys Asp Gln Pro Thr Phe Thr Leu Arg Gln Val Gly Ile Ile
115 120 125
Cys Glu Arg Leu Leu Lys Asp Tyr Glu Asp Lys Ile Arg Glu Glu Tyr
130 135 140
Glu Gln Ile Leu Asn Thr Lys Leu Ala Glu Gln Tyr Glu Ser Phe Val
145 150 155 160
Lys Phe Thr His Asp Gln Ile Met Arg Arg Tyr Gly Thr Arg Pro Thr
165 170 175
Ser Tyr Val Ser
180

<210> 2584

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2584

Met Cys Leu Phe Pro Arg Gln His Leu Asp Leu Ala Ala Trp Ser Gln
1 5 10 15
Gly Leu Ser Pro Pro Arg Arg Val Pro Ser Ser Gly Val Gly Gly Arg
20 25 30
Pro Thr Leu Pro Gln Gly Val Pro Phe Asp Gly Lys Cys Ser Gln Gln
35 40 45
Arg Gly Gly Val Trp Ala Thr Phe Arg Arg Trp Met Trp Trp Pro Arg
50 55 60
Pro Arg Pro Arg Arg Val Met Ala Phe Pro Phe Cys Arg Cys Gly Gln
65 70 75 80
Val Gly Leu Gly Pro Val Leu Gly Pro Leu Leu Ala Val Cys Glu Gly
85 90 95
Pro Gly Gly Arg Arg Gly Pro Asp Ser Ile Pro Ile Lys His Thr Gly
100 105 110
Thr

<210> 2585

<211> 179

<212> PRT

<213> Homo sapiens

<400> 2585

Met Phe Glu Ser Pro Gly Trp Ala Val Phe Ala Phe Leu Asp Asn Asp
1 5 10 15

Cys Gln His Gln Gln Gly Cys Leu Arg Met His Ala Leu Val Leu Gly
20 25 30
Pro Glu Ser Gln Arg Glu Leu Pro Leu Leu Ala Arg Ala Gln Ala Ala
35 40 45
Val Glu Glu Gln His Pro Gln Gly Ser Val Asp Gly Lys Asp Ala Trp
50 55 60
Leu Arg Ala Gly Asp Gly Val Pro Asp Glu Ser Val Pro Pro Thr Val
65 70 75 80
Ser Val Phe Arg Thr Cys Glu Val Gln Gly Cys Ala Arg Gly Arg Gly
85 90 95
Leu Gly Tyr Ser Asn Leu Ile Arg Gly Pro Glu Glu Arg Trp Val Val
100 105 110
Val Ile Asp Ile His Asp Cys Tyr Val Asp Leu Gly Ala Ala Ala Gly
115 120 125
Trp Gly Ala Ala Glu Leu Arg Leu His Arg Glu His Asn His Gly Leu
130 135 140
Arg Leu Val Ile Gln Gly Leu Pro Gly Ala Asn Ser Ala Gln Pro Arg
145 150 155 160
Val Asn Gly Glu Leu Ser Ala Glu Ile Thr Arg Arg Asn Pro Val Lys
165 170 175
Asp Trp Phe

<210> 2586

<211> 306

<212> PRT

<213> Homo sapiens

<400> 2586

Met Leu Ala Lys Gln Tyr Gly His Met Lys Ile Val Ala Leu Met Asp
1 5 10 15
Thr Tyr Ser Pro Ser Leu Pro Lys Ser Leu Tyr Arg Ser Pro Glu Lys
20 25 30
Tyr Glu Asp Leu Ser Ser Ser Asp Glu Ser Cys Pro Ala Pro Gln Arg
35 40 45
Gln Arg Pro Cys Arg Lys Lys Gly Val Ser Ile His Glu Gly Pro Arg
50 55 60
Ala Leu Ala Arg Ile Thr Gly Ile Gly Leu Gly Gly Arg Ala Pro Arg
65 70 75 80
Pro Arg Tyr Glu Gln Ala Pro Pro Arg Gly Tyr Val Thr Phe Asn Ser
85 90 95
Ser Gly Glu Asn Pro Leu Glu Glu Glu Gly Leu Cys Cys Arg Asp Val
100 105 110
Thr Ser Pro Ile Asn Glu Arg Asp Val Glu Ser Ser Ser Ser Ser Ser
115 120 125
Ser Arg Glu Glu His Ala Phe Cys Ala Asn Leu Gly Pro Val Gln Ser
130 135 140
Ser Ser Ser Ser Glu Gly Leu Ala Arg Ala Gln Gly Leu Ser Ser Glu
145 150 155 160
Ala Ser Val Glu Ser Asn Glu Asp Ser Asp His Ala Cys Lys Ser Ser
165 170 175
Ala Arg Lys Gln Ala Lys Ser Tyr Met Lys Thr Lys Asn Pro Asp Ser
180 185 190
Gln Trp Pro Pro Arg Ala Ala Thr Asp Arg Glu Gly Phe Leu Ala Glu
195 200 205
Ser Ser Pro Gln Thr Gln Arg Ala Pro Tyr Ser Gly Pro Gln Val Arg
210 215 220

Pro Leu Val Lys Leu Glu Val Thr Leu Arg Asp Gly Thr Phe Cys Asp
 225 230 235 240
 Leu Gly Gly Met Cys Cys Val Tyr Asp Val Pro Gly Ala Ala Arg Arg
 245 250 255
 Thr Glu Trp Arg Trp His Pro His Gly Leu Leu Gly Ser Thr Gly Ser
 260 265 270
 Gln Pro Ala Pro Trp Leu Ala Ala Pro Leu Gln Arg Phe Tyr Ser Val
 275 280 285
 Pro Leu His Gly Lys Asp Leu Ser Pro Cys Phe Pro Tyr Trp Ser Trp
 290 295 300
 Pro Pro
 305

<210> 2587

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2587

Met Thr His Thr Leu Pro Ser Ser Tyr His Asn Asp Ala Arg Ser Ser
 1 5 10 15
 Leu Ser Val Ser Leu Glu Pro Glu Ser Leu Gly Leu Gly Ser Ala Asn
 20 25 30
 Ser Ser Gln Asp Ser Leu His Lys Ala Pro Lys Lys Lys Gly Ile Lys
 35 40 45
 Ser Ser Ile Gly Arg Leu Phe Gly Lys Lys Glu Lys Ala Arg Leu Gly
 50 55 60
 Gln Leu Arg Gly Phe Met Glu Thr Glu Ala Ala Ala Gln Glu Ser Leu

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Ala Ile Gly Leu Arg Glu Tyr Ala Asn Asn Ile Leu Glu Ser Gly Val
 305 310 315 320
 His Gly Ser Leu Ile Ala Leu Asp Glu Asn Phe Asp Tyr Ser Ser Leu
 325 330 335
 Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln Ala Arg Gln Ile
 340 345 350
 Leu Glu Arg Glu Tyr Asn Asn Leu Leu Ala Leu Gly Thr Glu Arg Arg
 355 360 365
 Leu Asp Glu Ser Asp Asp Lys Asn Phe Arg Arg Gly Ser Thr Trp Arg
 370 375 380
 Arg Gln Phe Pro Pro Arg Glu Val His Gly Ile Ser Met Met Pro Gly
 385 390 395 400
 Ser Ser Glu Thr Leu Pro Ala Gly Phe Arg Leu Thr Thr Thr Ser Gly
 405 410 415
 Gln Ser Arg Lys Met Thr Thr Asp Val Ala Ser Ser Arg Leu Gln Arg
 420 425 430
 Leu Asp Asn Ser Thr Val Arg Thr Tyr Ser Cys
 435 440

<210> 2588

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2588

Met Arg Glu Tyr Lys Val Val Val Leu Gly Ser Gly Gly Val Gly Lys
 1 5 10 15
 Ser Ala Leu Thr Val Gln Phe Val Thr Gly Thr Phe Ile Glu Lys Tyr

20 25 30
Asp Pro Thr Ile Glu Asp Phe Tyr Arg Lys Glu Ile Glu Val Asp Ser
35 40 45
Ser Pro Ser Val Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe
50 55 60
Ala Ser Met Arg Asp Leu Tyr Ile Lys Asn Gly Gln Gly Phe Ile Leu
65 70 75 80
Val Tyr Ser Leu Val Asn Gln Gln Ser Phe Gln Asp Ile Lys Pro Met
85 90 95
Arg Asp Gln Ile Val Arg Val Lys Arg Tyr Glu Lys Val Pro Leu Ile
100 105 110
Leu Val Gly Asn Lys Val Asp Leu Glu Pro Glu Arg Glu Val Met Ser
115 120 125
Ser Glu Gly Arg Ala Leu Ala Gln Glu Trp Gly Cys Pro Phe Met Glu
130 135 140
Thr Ser Ala Lys Ser Lys Ser Met Val Asp Glu Leu Phe Ala Glu Ile
145 150 155 160
Val Arg Gln Met Asn Tyr Ser Ser Leu Pro Glu Lys Gln Asp Gln Cys
165 170 175
Cys Thr Thr Cys Val Val Gln
180

<210> 2589

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2589

Met Ala Ala His Pro Arg Arg Cys Pro Asp Asn Thr Cys Val Pro Cys
 1 5 10 15
 Ile Gly Ser Leu Met Gly Leu Gly Asp Ile Ile Ser Gln Gln Leu Val
 20 25 30
 Glu Arg Arg Gly Leu Gln Glu His Gln Arg Gly Arg Thr Leu Thr Met
 35 40 45
 Val Ser Leu Gly Cys Gly Phe Val Val Ser Ser Pro Leu Asn Arg Ala
 50 55 60
 Ser Val Asp Ser Thr Val Val Leu Val Leu Cys His Pro Leu Ala Ser
 65 70 75 80
 Leu Gly Leu Ser His Leu Ser Gln Pro Ala Ala Leu Phe Phe Leu Ser
 85 90 95
 Val His Phe Pro Tyr Ser Asp Thr Trp Gly Arg Glu Leu Ser Glu Val
 100 105 110
 Glu Ala

<210> 2590

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2590

Met Pro Phe Ser Cys Asn Val Leu His Val His Val Lys Ser Ser Pro
 1 5 10 15
 Ser Arg Pro Cys Leu Ala Leu Thr Leu Ile Pro Phe Glu Gly His Leu
 20 25 30
 Leu Trp Thr Val Val Leu Cys Asn Leu Gln Ile Ser His Thr Leu Gln

35 40 45
 Gln Met Gln Ile His Ile Glu Ile Ser Gly Ser Ile Cys Gly Leu Glu
 50 55 60
 Thr His Gly Ala Ile Phe Ile Phe Arg Ser Thr Ala Arg Phe Trp His
 65 70 75 80
 Pro Ala Val Gly Cys Gly Ala Pro His Ala Arg Thr Phe Leu Phe Phe
 85 90 95
 Leu Lys Asn Ser Ser
 100

<210> 2591

<211> 174

<212> PRT

<213> Homo sapiens

<400> 2591

Met Arg Pro Ser Pro Val Gly Leu Arg Asp Arg Lys His Met Leu Gly
 1 5 10 15
 Gln Gly Tyr Thr His Thr His Thr His Thr His Thr His Thr His Ser
 20 25 30
 Gly Ala Gly Met Asp Met Asn Asn Asn Leu Ser Pro Asn Cys Trp Leu
 35 40 45
 Glu Gln Asp Val Gly Cys Lys His Arg Gln Ala Ser Asn Thr Pro Pro
 50 55 60
 Leu Gly Leu Arg Cys Pro His Ala Val Thr Gln Pro Ala Leu His Thr
 65 70 75 80
 Cys Val Ser Gln Leu His Thr Leu Pro Gly Cys Thr Arg Thr Ser Arg
 85 90 95

Ala Gly Arg Ser His Pro His Pro Thr Leu Gln Asn Pro Leu Pro Gln
 100 105 110
 Pro His Ser Leu Pro Leu Gly Leu Ala Cys Leu Gly Ser Leu Gly Leu
 115 120 125
 Ala Thr Pro Ala Pro Lys Ile Gly Gly Pro Ala Arg Pro Gly Val Arg
 130 135 140
 Pro Gly Gly Lys Glu Trp Gly Thr Leu Thr Pro Ile Gly Leu Ser Pro
 145 150 155 160
 Ala Glu Arg Arg Pro Pro Asn Val Leu Leu Cys Pro Gly Gly
 165 170

<210> 2592

<211> 180

<212> PRT

<213> Homo sapiens

<400> 2592

Met Tyr Thr His Ile His Met Cys Ile Cys Met Tyr Thr His Met His
 1 5 10 15
 Met Cys Thr Tyr Val Cys Ile His Ile His Ile Cys Val His Ile Tyr
 20 25 30
 Ile Cys Met Tyr Thr His Arg Tyr Met Cys Thr Arg Lys His Met Tyr
 35 40 45
 Thr His Lys His Met Tyr Val Tyr Thr Tyr Ile Tyr Val Tyr Thr Tyr
 50 55 60
 Thr Tyr Val Cys Val His Ile His Ile Cys Val His Ile Tyr Leu Cys
 65 70 75 80
 Met Tyr Thr His Thr Tyr Met Cys Ala His Ile His Met Cys Val Tyr

	85	90	95
Thr Tyr Ile Tyr Val Tyr Ile Tyr Thr His Ile His Ile Cys Val His			
100	105	110	
Ile Asn Met Tyr Val Ser Ile Tyr Val Tyr Ile Tyr Thr Cys Ile Gln			
115	120	125	
Ile Tyr Ile Tyr Met Tyr Thr Leu Tyr Val Cys Thr Tyr Thr Tyr Met			
130	135	140	
Cys Thr Tyr Ile His Ile Cys Ile His Thr Ser Ile Ile Tyr Val Cys			
145	150	155	160
Val Tyr Ile His Ile Gln Cys Pro Leu Asn Ile Tyr Ile Tyr Leu Val			
165	170	175	
Cys Met Cys Val			
180			

<210> 2593

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2593

Met Leu Val Phe Ala Leu Pro Pro Cys Pro Ser His Cys Tyr Ser Gly			
1	5	10	15
Gln Phe Val Ala Leu Trp Leu Leu Met Ala Leu Cys Leu Val Ile Met			
20	25	30	
Gln Gly Ala Gln Gly Asn Lys Phe Ser Val Asp Ile Leu Lys Thr Asp			
35	40	45	
Ser Leu Thr Gly Val Leu Glu Leu Glu Lys Glu Thr Ala Val Asp Val			
50	55	60	

Trp Cys Gly Pro Ile Leu Arg Ala Leu Ser Val Arg Gln Glu Ser Tyr
 65 70 75 80
 Thr Cys Asp Thr Asn Phe Phe Arg Tyr His Cys Ser Ile Asn Ile Gln
 85 90 95
 Thr Ser Leu Ser Pro Cys Thr Pro Thr Ser Glu Asn
 100 105

<210> 2594

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2594

Met Ile Pro Gly Pro Arg Phe His Arg Ala Glu Thr Ser His Trp Tyr
 1 5 10 15
 Cys Ser Val Val Cys His Ala Lys Pro Leu Thr Tyr Arg Leu His Glu
 20 25 30
 His Gly Leu Phe Met Gln Leu Ser Phe Arg Val Ile Tyr Cys Ala Asp
 35 40 45
 Ile Ile Thr Arg Thr Thr Leu Gln Phe Pro Ser Tyr Val Leu Leu Ser
 50 55 60
 Tyr Ile Leu Ser Val Leu Cys Val Leu Ile Leu Leu Ser Cys Thr Leu
 65 70 75 80
 Met Phe Phe Asn Ser Lys Thr Leu Tyr Ser Gln Cys Leu Cys Leu Tyr
 85 90 95
 Ile His Ile Tyr Ile Lys Leu Ser Leu Leu Phe Ile Ile Phe Cys Ile
 100 105 110

<210> 2595

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2595

Met Phe Gly Ser Ser Arg Gly Gly Val Arg Gly Gly Gln Asp Gln Phe

1 5 10 15

Asn Trp Glu Asp Val Lys Thr Asp Lys Gln Arg Glu Asn Tyr Leu Gly

20 25 30

Asn Ser Leu Met Ala Pro Val Gly Arg Trp Gln Lys Gly Arg Asp Leu

35 40 45

Thr Trp Tyr Ala Lys Gly Arg Ala Pro Cys Ala Gly Pro Ser Arg Glu

50 55 60

Glu Glu Leu Ala Ala Val Arg Glu Ala Glu Arg Glu Ala Leu Leu Ala

65 70 75 80

Ala Leu Gly Tyr Lys Asn Val Lys Lys Gln Pro Thr Gly Leu Ser Lys

85 90 95

Glu Asp Phe Ala Glu Val Cys Lys Arg Glu Gly Gly Asp Pro Glu Glu

100 105 110

Lys Gly Val Asp Arg Leu Leu Gly Leu Gly Ser Ala Arg Cys Gly Arg

115 120 125

Val Ser Arg Gly Gly Gln His Trp Ala Arg Leu Leu Gly

130 135 140

<210> 2596

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2596

Met	His	Thr	Tyr	Ile	Tyr	Met	Cys	Val	Tyr	Pro	Tyr	Ile	Cys	Ile	Tyr
1				5					10					15	
Met	His	Val	Tyr	Pro	Cys	Ile	Cys	Ile	Tyr	Leu	His	Val	Tyr	Thr	Tyr
			20					25					30		
Ile	Cys	Met	Tyr	Ile	His	Ile	Tyr	Pro	Tyr	Leu	Cys	Met	Tyr	Val	His
		35					40					45			
Ile	Tyr	Pro	Tyr	Ile	Cys	Thr	Cys	Ile	Tyr	Thr	His	Ile	Cys	Met	Arg
	50					55				60					
Val	His	Val	Tyr	Ala	Tyr	Met	Tyr	Val	Arg	Thr	Tyr	Ile	His	Ile	Met
65				70					75					80	
Cys	Met	His	Val	Cys	Val	Tyr	Val	Cys	Val	His	Ala	Cys	Met	Cys	Val
			85					90					95		
Cys	Thr	Cys	Ala	Tyr	Thr	His	Val	Phe	Val	Cys	Val	Arg	Val	Arg	Thr
		100						105					110		
Cys	Val	Tyr	Met	Arg	Thr	His	Thr	His	Ile	Cys	Val	Tyr	Ala	Cys	Ala
		115					120						125		
Cys	Ala	His	Met	Cys	Val	Cys	Val	Arg	Val	His	Thr	Tyr	Val	Cys	Met
	130					135					140				
Arg	Ala	Tyr	Ile	His	Ala	Tyr	Met	Tyr	Val	Arg	Thr	Tyr	Ile	Cys	Ile
145				150					155					160	
Phe	Met	Phe	Tyr	Val	Tyr	Val	Phe	Tyr	Met	Tyr	Ile	Tyr	Leu	His	Ile
			165					170					175		
Leu	His	Tyr	Phe	His	Glu	Glu	Ile	Gly	Ala	Gln	Gly	Ser			
		180						185							

<210> 2597

<211> 258

<212> PRT

<213> Homo sapiens

<400> 2597

Met Trp Arg Tyr Arg Ser Trp Asp Val Pro Gln Ile Pro Ser Glu Ala

1 5 10 15

Pro Gln Thr Gln Lys Ala Ile Thr Lys Ser Gly Leu Gln His Leu Ala

20 25 30

Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser Glu Arg Gln

35 40 45

Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr Gly Glu His

50 55 60

Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr Val Gly Glu

65 70 75 80

Gln Tyr Cys Val Ala Arg Met Leu Val Ser Ala Arg Arg Gly Thr Pro

85 90 95

Pro Pro Ala Gly Gly Ala Ser Ser Arg Ser Pro Ser Gly Asn Val Gly

100 105 110

Leu Ser Pro Leu Pro Gly Thr Pro Ala Val Gly Arg Pro Arg Met Val

115 120 125

Arg Gly Ala Gly Ala Leu Ser Gly Cys Gln Asp Trp Gly Phe Pro Val

130 135 140

His Thr Lys Gly Ser Cys Ala Gly Ala Gly Ser Leu Arg Asp Arg Leu

145 150 155 160

Thr Trp Cys Leu Arg Gly Pro Leu Phe Leu Ser Cys Ser Arg Ser Gln

165 170 175

Cys Leu Glu Glu Ser Ala Gln Pro Ala Arg Leu Trp Cys Thr Arg Pro
 180 185 190
 Ala Ser Ser Ser Trp Arg Arg Trp Val Gly Ser Ser Ala Leu Pro Ala
 195 200 205
 Pro Ala Leu Trp Val Leu Arg Pro Phe Gln Arg Ala Leu Thr Pro Thr
 210 215 220
 Cys Tyr Thr Asn Gly Leu Pro Gly Val Thr Gln His Ser Gly Val Lys
 225 230 235 240
 Ser Gln Gly Pro Trp Ser Gln Met Pro Ala Phe Glu Ser Trp Leu Leu
 245 250 255
 Thr Asp

<210> 2598

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2598

Met Tyr Lys Glu Arg Asn Lys Tyr Leu Lys Tyr Asn Leu Pro Asp Ser
 1 5 10 15
 Gln Ala Ser Lys Met Pro Gly Arg Gly Ser Ala Arg Ala Lys Leu Thr
 20 25 30
 His Ser Gly Gln Ser Val Ser Phe Pro Pro His Gly Lys Asp Glu Ile
 35 40 45
 Ser Ser Gln Lys Ile Arg Cys Ala Gly Gly Lys Arg Glu Trp Gly Glu
 50 55 60
 Gly Glu Gly Gly Lys Lys Arg Val Ala Arg Arg Gln Glu Cys Val Ser

65	70	75	80
Val Ser Arg Lys Phe	Ser Gln Met Ile Leu	Ser Arg Leu Thr His	Phe
85	90	95	
Val Thr Leu Ser Leu	Thr Leu Glu Arg Arg	Gly Lys Thr Gln	Pro Pro
100	105	110	
Phe Phe Phe Pro Leu	Ile Ile Pro His Tyr	Leu His Thr Ala	Leu Glu
115	120	125	
Ser Glu Met Ser Thr	Arg Ser Gly Arg Cys	Pro Ala Ala Ala	Cys His
130	135	140	
Arg Cys Gly Pro Phe	Val Thr Cys Lys Val	Cys Cys Phe Cys	Pro
145	150	155	

<210> 2599

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2599

Met Glu Ala Gly Pro	His Pro Arg Pro	Gly His Cys Cys	Lys Pro Gly
1	5	10	15
Gly Arg Leu Asp Met	Asn His Gly Phe	Val His His Ile	Arg Arg Asn
20	25	30	
Gln Ile Ala Arg Asp	Asp Tyr Asp Lys	Lys Val Lys Gln	Ala Ala Lys
35	40	45	
Glu Lys Val Arg Arg	Arg His Thr Pro	Ala Pro Thr Arg	Pro Arg Lys
50	55	60	
Pro Asp Leu Gln Val	Tyr Leu Pro Arg	His Arg Gly Glu	Ala Ala Arg
65	70	75	80

Pro Ala Cys Leu Gln Pro Ala Arg Ser Ser Cys Asn Ala Leu Pro Phe
 85 90 95
 Ser Ile Gly Lys Asn His Phe Leu Leu Leu Arg Phe Ser Ser Ser Arg
 100 105 110
 Leu Phe Pro Glu Pro Pro Pro Gln Arg Ser Gln Ile Ser Ala Glu
 115 120 125

<210> 2600

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2600

Met Pro Val Gly Glu Arg Gly Phe Ala Arg Val Tyr Val Phe Phe Lys
 1 5 10 15
 Thr Val Asp Leu Tyr Asn Trp Lys Ser His Ser Lys Gly Leu Trp Val
 20 25 30
 Ser Pro Arg Glu Phe Val Thr Leu Ile Trp Arg Ile Phe Ser Thr His
 35 40 45
 Asn Pro Thr Trp Pro Gly Val Gln Thr Val Thr Ala Thr Leu Leu Thr
 50 55 60
 Ala Glu Asp Lys Ser Ala Thr Met Ala Lys Thr Lys Glu Glu Ala Asp
 65 70 75 80
 Asn Met Cys Ala Asp Asn Leu Val Thr Trp Pro Val Glu Val Ser Val
 85 90 95
 Pro Ile Ala Asn Pro Asn Trp Asp Pro Ser Asp Asn Lys Asn Gln Glu
 100 105 110
 Trp Leu His His Tyr Arg Asn Met Leu Leu Arg Gly Met Arg Glu Ala

115 120 125
Ser Gln Ser Leu Val Asn Trp Gly Asn Leu Arg Glu Ile Glu Gln Gly
130 135 140
Pro Asn Glu Asn Pro Ser Ala Phe Leu Asn
145 150

<210> 2601

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2601

Met Val Ser Phe Ser Thr Gly Pro Ser Arg His Pro Ser Leu Ile Ser
1 5 10 15
Ser Asp Ser Asn Asn Leu Lys Leu Asn Asn Val Arg Leu Pro Arg Glu
20 25 30
Asn Met Ser Leu Pro Ser Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp
35 40 45
Ser Arg Ala Val Lys Pro Ala Asp Arg Gln Met Ala Gln Asn Asn Ser
50 55 60
Arg Pro Glu Leu Leu Asp Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln
65 70 75 80
Gly Phe Ile Arg Leu Pro Val Leu Gly Tyr Ile Tyr Arg Val Ser Ser
85 90 95
Val Ser Ser Asp Glu Ile Trp Leu
100

<210> 2602

<211> 888

<212> PRT

<213> Homo sapiens

<400> 2602

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Met His Cys Pro Gly Glu Ala Pro Leu Ala Ala Pro Arg Pro Thr Pro
  1           5           10           15
Lys Asp Pro Cys Leu Arg Asn Val Leu Ala Lys Ala Leu Tyr Asp Asn
           20           25           30
Val Ala Glu Ser Pro Asp Glu Leu Ser Phe Arg Lys Gly Asp Ile Met
           35           40           45
Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu Cys
           50           55           60
Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys Ile
           65           70           75           80
Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Pro Gly Pro
           85           90           95
Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala Pro
           100          105          110
Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro Gln
           115          120          125
Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln Gly
           130          135          140
Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro Ala
           145          150          155          160
Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe Pro
           165          170          175
Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly Pro

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180	185	190
Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His Asp		
195	200	205
Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly Thr		
210	215	220
Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly Tyr		
225	230	235
Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro Arg		
245	250	255
His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro Ile		
260	265	270
Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr Pro		
275	280	285
Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu Val		
290	295	300
Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn His		
305	310	315
His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro Asp		
325	330	335
Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe Ala		
340	345	350
Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala Ala		
355	360	365
Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro Pro		
370	375	380
Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro Gly		
385	390	395
Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro Glu		
405	410	415

Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro Pro
420 425 430
Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala Ser
435 440 445
Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu Val
450 455 460
Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu Ala
465 470 475 480
Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu Leu
485 490 495
Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro Ser
500 505 510
Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala Ala
515 520 525
Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala Val
530 535 540
Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu Ser
545 550 555 560
Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala His
565 570 575
Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu Glu
580 585 590
Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp Ala
595 600 605
Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe Arg
610 615 620
Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu His
625 630 635 640
Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu Pro

645	650	655
Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr Glu		
660	665	670
Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu Gln		
675	680	685
Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys Gly		
690	695	700
Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu Lys		
705	710	715
Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Leu Ile Asp His Asp		
725	730	735
Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr Gly		
740	745	750
Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu Gln		
755	760	765
Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe Phe		
770	775	780
Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His Ser		
785	790	795
Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp Thr		
805	810	815
Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr His		
820	825	830
Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr Thr		
835	840	845
Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp Met		
850	855	860
Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg Arg		
865	870	875
		880

Val Leu Gly Gln Leu Ala Ala Ala

885

<210> 2603

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2603

Met Pro Gly Gly Gly Asn Leu Arg Ser Gly Lys Asn Phe Val Leu Phe

1

5

10

15

Pro Glu Lys Lys Lys Lys Lys Lys Lys Asp His Arg Val Arg Arg Asn

20

25

30

Phe Phe Phe Leu Arg Trp Arg Leu Leu Ser Pro Arg Leu Glu Cys Ser

35

40

45

Gly Ala Ile Ser Ala His Cys Asn Phe Cys Leu Pro Gly Ser Ser Asn

50

55

60

Ser Pro Ala Ser Ala Ser Arg Ile Ala Gly Ile Thr Gly Ala His His

65

70

75

80

His Ala Trp Leu Ile Phe Val Phe Leu Val Asp Thr Gly Phe His Gln

85

90

95

Val Gly Gln Thr Cys Leu Lys Leu Leu Thr Ser Ser Asp Leu Pro Ala

100

105

110

Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His Tyr Ala Arg

115

120

125

Arg Glu Arg Asp Ile Asn Leu Lys

130

135

<210> 2604

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2604

Met Val Ser Thr Trp Arg Pro Lys Glu Ala Ala Ser Arg Ala Arg Asp

1 5 10 15

Ile Ala Thr Glu Val Ser Pro Trp Leu Ala Ala Ser Ala Ser Ala Ser

20 25 30

Ala Pro Ser Trp Met Glu Asp Glu Gly Ser Asn Ser Gly Lys Gln Arg

35 40 45

Pro Arg Glu Ala Ala Asp Phe Ser Ile Pro Pro Ser Gly Phe Arg Leu

50 55 60

Gly Arg Cys Thr Ala Val Arg Gly Arg Ala His Val Gly Ser Gln Cys

65 70 75 80

Val Gln Glu Cys Val Tyr Leu Glu Glu Cys Val Cys Glu Cys Val Pro

85 90 95

Gly Pro Val Leu Val Cys Arg Cys

100

<210> 2605

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2605

Met Glu Arg Ile Leu Pro Gln Leu Pro Ser Arg Gly His Lys Ser Ser
 1 5 10 15
 Glu Leu His Ser Leu Glu Ser Arg Pro Thr Gly Leu His Thr His Val
 20 25 30
 Pro Glu Ile Ser Leu Val Pro Pro Thr Pro Ser Gly Asn Gln Thr Ser
 35 40 45
 Ala His Arg Arg Asp Val Ile Leu Arg Val Gln Pro Pro Thr Ser Thr
 50 55 60
 Gly Pro Pro Leu Pro Pro Leu Ser Leu Val Asn Arg Ala Ile Pro Cys
 65 70 75 80
 Leu Arg Pro Gly Pro Val Asp Ser Asp Leu Thr Ala Asn Met Gly Gln
 85 90 95
 Gln Ser Gly Thr Ser Val Tyr Arg Ala Ser Ser Pro Arg Ser Ser Ala
 100 105 110
 Cys Gln Lys Glu Gly Asp Gln Pro Pro Gly Gly Ala Gln Ser Ser Ala
 115 120 125
 Gly Leu Gly Leu Val Arg Arg Glu Asn Arg Val Ser Arg Gly Trp Val
 130 135 140
 Ser Lys Ser Glu His Ser Thr Ser Gly Gln Gly Thr Ser Ala Asp Thr
 145 150 155 160
 His Arg Ser Arg

<210> 2606

<211> 187

<212> PRT

<213> Homo sapiens

<400> 2606

Met Ala Ala Ala Gly Pro Met Thr Gly Ala Ala Ala Ser Arg Ala Ala
 1 5 10 15
 Thr Ala Ala His Cys Ser Gly Gly Ser Lys Val Glu Ala Val Arg Gly
 20 25 30
 Ala Val Gln Gly Ala Ala Gly Val Lys Pro Pro Val Ala Ala Ala Pro
 35 40 45
 Ser Leu Leu Trp Leu Cys Pro Pro Gly Pro Pro Val Leu Leu Asp Pro
 50 55 60
 Leu Pro Ser Trp Thr Leu Cys Pro Pro Gly Pro Pro Ser Leu Leu Gly
 65 70 75 80
 Pro Pro Gly Pro Pro Ala Leu Leu Asp Pro Leu Ser Ser Trp Thr Pro
 85 90 95
 Cys Pro Pro Gly Pro Pro Val Cys Gly Pro Cys Ser Ser Pro Pro Ser
 100 105 110
 Pro Thr His Asp Trp Thr Pro Arg Ser Ala Ala Gly Val Trp Ala Leu
 115 120 125
 Gly Val Leu Trp Ala Ser Arg Cys Leu Gly Thr Ile Thr Gly Ser Arg
 130 135 140
 Ala His Thr Gln Pro Leu Leu Pro Glu His Thr Arg Gly Ser Arg His
 145 150 155 160
 Pro Asp Glu Ser Thr Val Pro Ala Met Val Phe Arg Asp Gly Glu Gly
 165 170 175
 Ser Leu Ser Ser Ala Gly Thr Leu Gln Pro Gly
 180 185

<210> 2607

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2607

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Met Glu Asp Glu Arg Ile Leu Asp Asn Leu Gly Ala Glu Gly Leu His
  1             5             10             15
Gly Ser Glu Trp Glu Trp Arg Arg Trp His Phe Gly Gly Trp Val Glu
          20             25             30
Glu Glu His Arg His Arg Trp Pro Arg Gly Val Trp Ser Thr Asp Lys
          35             40             45
Ser Pro Gly Gly Val Gln Pro Gln Cys Leu Ser Gln Glu Val Ser Ala
          50             55             60
Leu Val Ser Gly Thr Gln Ser Ser Leu Arg Asn Gly Leu Gly Asp Lys
          65             70             75             80
Trp Ser Ala Cys Cys Thr Arg Ala Leu Gly Glu Cys Ala Trp Ser Cys
          85             90             95
Leu Ser Gly His His
          100

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<210> 2608

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2608

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Met Ser Leu Leu Lys Ser Tyr Cys Lys Leu Arg Ala Asn Cys Asn Leu
  1             5             10             15
Leu Phe Leu Phe Val Ala Arg Gly Leu His Arg Ser Leu Asn Ile Cys

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<210> 2609

<211> 546

<212> PRT

<213> Homo sapiens

<400> 2609

出証特 2 0 0 4 - 3 0 5 9 6 6 0

Asp Asp Val Lys Glu Lys Lys His Pro Glu Asn Asn Gln Lys Ser Gly			
	85	90	95
Asn Asn Gln Lys Leu Leu Thr Gly Ala Asn Ser Ser Arg Phe Leu Asp			
	100	105	110
Gly Asn Ile Pro Ser Gln Ala Asn Val His Cys Ser Ser Val Pro Thr			
	115	120	125
Gly Asp Gln Ser Leu Ser Tyr Val His Gly Ile Pro Arg Arg Lys Leu			
	130	135	140
Arg Asp Trp Ser Leu Glu Gln Met Val Arg Gly Ser Ser Asp Gln Pro			
	145	150	155
Glu Asp Ile Gly Gln Ser Pro Ser Gly Thr Thr Asn Glu Asp Ala Phe			
	165	170	175
Leu Leu Ala Leu Val Arg Arg Glu Leu Lys Ser Arg Pro Leu Ser Ser			
	180	185	190
Asn Leu Leu Glu Lys Leu Gln Lys Glu Leu Lys Ile Leu Asp Pro Ile			
	195	200	205
Ser Ser Gly Phe Leu Leu Gln Ser Gln Leu Ser Arg Leu Phe Leu Lys			
	210	215	220
His Glu Val Pro Leu Gln Leu Pro Thr Val Lys Ile Leu Cys Gln Arg			
	225	230	235
Phe Ser Lys Arg Gly Ser Pro Glu Met Val Asn Tyr Glu Lys Leu Leu			
	245	250	255
Trp Phe Leu Asn Ser Ala Ala Ser Asp Tyr Pro Gln Gln Asn Lys Ala			
	260	265	270
Ala Ala Asp Leu Arg Lys Thr Glu Ser His Gly Thr His Ser Gln Ser			
	275	280	285
Thr Pro Pro Gln His Ser Ser Ser Gln Pro Glu Val Asn Arg Ser Leu			
	290	295	300
Leu Glu Ile Leu Lys Met Ala Leu Arg Thr Thr Asn Gly Arg Leu Asn			